



TEST REPORT

Reference No.....: WTF25D06145151Y

Applicant.....: Mid Ocean Brands B.V.

Address...... Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan,

Kowloon, Hong Kong.

Manufacturer..... : 114768

Product.....: TWS earbuds

Model(s).....: MO2737

Total pages : 68 pages and 10 pages of photo.

Standards..... : X EN IEC 62368-1:2020+A11:2020

Audio/video, information and communication technology equipment-

Part 1:Safety requirements

Date of Receipt sample....: 2025-06-12

Date of Test...... 2025-06-12 to 2025-06-27

Date of Issue..... : 2025-07-08

Test Result.....: Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Testing Group Co., Ltd.

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Compiled by:

Grate Jeng

Grace Feng / Project Engineer

Approved by:

Almon Zhao / Designated Reviewer



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| Test item description TWS earbud | some win with the |
|--|--|
| Trademark MOE | LEX MILIER MILIER MILIER WHITE WHITE WHITE |
| Model and/or type reference MO2737 | |
| Rating(s) 5V DC | |
| Remark: Whether parts of tests for the product have been sub ☐ Yes ☐ No If Yes, list the related test items and lab information: Test items: Lab information: | contracted to other labs: |
| Summary of testing: | the state of the state of |
| Tests performed (name of test and test clause): - EN IEC 62368-1:2020+A11:2020 The submitted samples were found to comply with the requirements of above specification. | Testing location: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China |
| EU Group Differences ☑ The product fulfils the requirements of EN IEC 623 | 368-1:2020+A11:2020. |
| Use of uncertainty of measurement for decisions | on conformity (decision rule): |
| No decision rule is specified by the IEC standard, applicable limit according to the specification in that s without applying the measurement uncertainty ("simp "accuracy method"). | when comparing the measurement result with the standard. The decisions on conformity are made |
| ☐ Other:(to be specified, for example when require requirements apply) | ed by the standard or client, or if national accreditation |
| Information on uncertainty of measurement: | |
| The uncertainties of measurement are calculated by | the laboratory based on application of criteria given by ethods, decision sheets and operational procedures of |
| IEC Guide 115 provides guidance on the application the decision rule when reporting test results within IE | |

measurement uncertainty for measurements is not necessary unless required by the test standard or

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted

the testing.

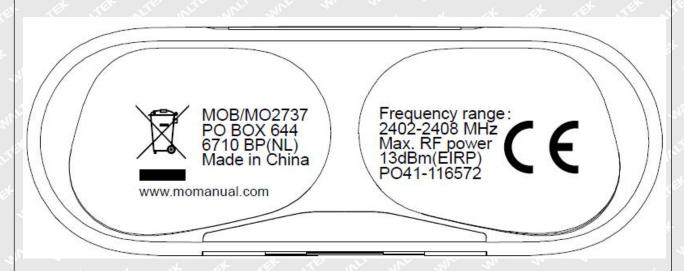
customer.





Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Remark:

- 1. The above markings are the minimum requirements required by the safety standard. For the final production, the additional markings which do not give rise to misunderstanding may be added.
- 2. The CE marking and WEEE symbol should be at least 5.0mm and 7.0mm respectively in height.
- 3. According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.

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| TEST ITEM PARTICULARS: | Will me my my the fit |
|---|---|
| Product group | ⊠ end product □ built-in component |
| Classification of use by: | ☑ Ordinary person☐ Instructed person☐ Skilled person |
| Supply Connection: | ☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES2 ☐ ES3 |
| Supply % Tolerance | ☐ +10%/-10% ☐ +20%/-15% ☐ +%/% ☑ None |
| Supply Connection – Type: | □ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector ⋈ other: not Mains connected |
| Considered current rating of protective device as part of building or equipment installation: | □A; Location:□ building □ equipment □ N/A |
| Equipment mobility: | □ movable □ hand-held □ transportable □ direct plug-in □ stationary □ for building-in □ wall/ceiling-mounted □ SRME/rack-mounted □ other: □ other: □ other: □ others |
| Over voltage category (OVC): | □ OVC I □ OVC II □ OVC IV □ OVC III |
| Class of equipment: | ☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐ ☐ |
| Access location | N/A ☐ restricted access area☐ outdoor location☐ |
| Pollution degree (PD): | □PD 1⊠ PD 2 □ PD 3 |
| Manufacturer's specified maxium operating ambient: | 25°C Outdoor: minimum°C |
| IP protection class | ⊠ IPX0 □ IP |
| Power Systems: | ☐ TN ☐ TT ☐ ITV L-L ☐ not AC mains |
| Altitude during operation (m): | ⊠ 2000 m or less □m |
| Altitude of test laboratory (m): | ⊠ 2000 m or less □ m |
| Mass of equipment (kg): | ⊠ Approx. 0.07kg |



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| POSSIBLE TEST CASE VERDICTS: | Mr. Mr. Mr. Mr. Mr. A. |
|---|---|
| - test case does not apply to the test object: | N/A |
| - test object does meet the requirement: | P (Pass) |
| - test object does not meet the requirement: | F (Fail) |
| TESTING: | un un vi t et est |
| Date of receipt of test item: | 2025-06-12 |
| Date (s) of performance of tests: | 2025-06-12 to 2025-06-27 |
| GENERAL REMARKS: | LIES RUTES INCHE MILL WINE WINE WINE |
| "(see Enclosure #)" refers to additional information ap "(see appended table)" refers to a table appended to the Throughout this report a \square comma $I \bowtie$ point is upon the second second and the second sec | the report. |
| GENERAL PRODUCT INFORMATION: | t liet wife while while while while |
| The EUT covered by this report is a TWS earbuds It is supplied by external power supply or by approximately complied with PS1. The manufacturer specified maximum ambient tem All circuits complied with ES1 and PS1, no other circuits | oved internal lithium-ion battery or USB type-C which apperature is 25°C. |

5. The acoustic energy sources were tested according to EN 50332-2, test report Reference No. WTF25X06145362Y.



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| Clause | Possible Hazard | | | | |
|-------------------------------|--------------------------------|--------------------------|-------------------|-------------------|--|
| 5 | Electrically-caused injury | | X | | |
| Class and Energy Source | Body Part Safeguard | | | ds | |
| e.g. ES3: Primary circuit) | (e.g. Ordinary) | В | S | R | |
| ES1: All internal circuit | Ordinary | N/A | N/A | N/A | |
| 3 | Electrically-caused fire | | | | |
| Class and Energy Source | Material part | | Safeguards | | |
| e.g. PS2: 100 Watt circuit) | (e.g. Printed board) | В | 1 st S | 2 nd S | |
| PS1: <15 Watt circuits | Enclosure | N/A | N/A | N/A | |
| PS1: <15 Watt circuits | PCB | N/A | N/A | N/A | |
| PS1: <15 Watt circuits | The other components/materials | N/A | N/A | N/A | |
| 7 | Injury caused by hazardous | substances | | | |
| Class and Energy Source | Body Part | | Safeguards | | |
| e.g. Ozone) | (e.g., Skilled) | В | S | R | |
| Battery(See Annex M) | Ordinary | N/A | N/A | N/A | |
| } | Mechanically-caused injury | | | | |
| Class and Energy Source | Body Part | | Safeguards | | |
| e.g. MS3: Plastic fan blades) | (e.g. Ordinary) | В | S | R | |
| MS1: Edges and corners | Ordinary | N/A | N/A | N/A | |
| MS1: Mass of the unit | Ordinary | N/A | N/A | N/A | |
|) | Thermal burn | | | | |
| Class and Energy Source | Body Part | | Safeguards | | |
| e.g. TS1: Keyboard caps) | (e.g., Ordinary) | В | S | R | |
| S1: All accessible parts | Ordinary | N/A | N/A | N/A | |
| 0 | Radiation | | | | |
| Class and Energy Source | Body Part | | Safeguards | | |
| (e.g. RS1: PMP sound output) | (e.g., Ordinary) | В | S | R | |
| RS1: LED for indicating | Ordinary | N/A | N/A | N/A | |
| RS2:Sound output | Ordinary | Instructional safeguards | N/A | N/A | |

| ENERGY SOURCE DIAGRAM | | | |
|---|--|--|--|
| Indicate which energy sources are included in the energy source diagram. Insert diagram below | | | |
| ES PS TS RS | | | |
| See details in OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS | | | |



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| Unite Maria | Mr. Mar. Aller M. | EN IEC 62368- | Lifet white white | MULTE MULTE MILL |
|-------------|--------------------|---------------|-------------------|------------------|
| Clause | Requirement – Test | AND THE A | Result – Remark | Verdict |

| 4 | GENERAL REQUIREMENTS | | P. |
|---------------|---|---|---------|
| 4.1.1 | Acceptance of materials, components and subassemblies | (See appended table 4.1.2) | JIN P |
| 4.1.2 milital | Use of components | Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G | TEK WAL |
| 4.1.3 | Equipment design and construction | Equipment is adequately designed and constructed. | N P |
| 4.1.4 | Specified ambient temperature for outdoor use (°C) | Indoor use only | N/A |
| 4.1.5 | Constructions and components not specifically covered | No such constructions and components. | N/A |
| 4.1.8 | Liquids and liquid filled components (LFC) | No such parts. | N/A |
| 4.1.15 | Markings and instructions | (See Annex F) | Р |
| 4.4.3 | Safeguard robustness | See below | ĮΓP |
| 4.4.3.1 | General | 2 14 14 | Р |
| 4.4.3.2 | Steady force tests | (See Annex T.4and T.5). | N/A |
| 4.4.3.3 | Drop tests | (See Annex T.7) | Р |
| 4.4.3.4 | Impact tests | (See Annex T.6) | N/A |
| 4.4.3.5 | Internal accessible safeguard tests | No such parts. | N/A |
| 4.4.3.6 | Glass impact tests | No such glass used. | N/A |
| 4.4.3.7 | Glass fixation tests | No such parts. | N/A |
| in and | Glass impact test (1J) | LIER OLIER WALTER WALLE | N/A |
| et let | Push/pull test (10 N) | o a the | N/A |
| 4.4.3.8 | Thermoplastic material tests | (See Annex T.8) | N/A |
| 4.4.3.9 | Air comprising a safeguard | | N/A |
| 4.4.3.10 | Accessibility, glass, safeguard effectiveness | E WILL MILL MAL MAL | N/A |
| 4.4.4 | Displacement of a safeguard by an insulating liquid | THE STEE MITTER | N/A |
| 4.4.5 | Safety interlocks | M The state of | N/A |
| 4.5 | Explosion | NITER WITE WALTE WALL VI | N/A |
| 4.5.1 | General | | N/A |
| 4.5.2 | No explosion during normal/abnormal operating condition | The white white when who | N/A |
| JALL W | No harm by explosion during single fault | H TEN TEN STEE STEEL SOUTH | N/A |



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| | | 30.1.101 | |
|--------|--------------------|-----------------|---------|
| in m | | EN IEC 62368-1 | |
| Clause | Requirement – Test | Result – Remark | Verdict |

| <i>J</i> + | conditions | 10 10 | اد یا |
|-------------|--|-------------------------------------|-------|
| 4.6 | Fixing of conductors | I LIER ALTER MITE WALT | N/A |
| | Fix conductors not to defeat a safeguard | 211 211 211 | N/A |
| Try and | Compliance is checked by test | LIER NITER WHITE WHITE | N/A |
| 4.7 | Equipment for direct insertion into mains sock | et-outlets | N/A |
| 4.7.2 | Mains plug part complies with relevant standard | Not direct plug-in equipment. | N/A |
| 4.7.3 | Torque (Nm) | | N/A |
| 4.8 | Equipment containing coin/button cell batterie | S put of one | N/A |
| 4.8.1 | General | No coin/button cell batteries used. | N/A |
| 4.8.2 | Instructional safeguard | In the state of | N/A |
| 4.8.3 | Battery compartment door/cover construction | LIE MIE MILE WALL V | N/A |
| y 184 | Open torque test | a total | N/A |
| 4.8.4.2 | Stress relief test | TER WILL MUTT MUTT MA | N/A |
| 4.8.4.3 | Battery replacement test | and the second | N/A |
| 4.8.4.4 | Drop test | White white white whi | N/A |
| 4.8.4.5 | Impact test | THE THE | N/A |
| 4.8.4.6 | Crush test | 2 Ship ship | N/A |
| 4.8.5 | Compliance | The The | N/A |
| 40, | 30N force test with test probe | is me my my a | N/A |
| CLIFE | 20N force test with test hook | of the text attention | N/A |
| 4.9 | Likelihood of fire or shock due to entry of cond | ductive object | N/A |
| 4.10 | Component requirements | - TEK ITEK NITEK OLIFE | N/A |
| 4.10.1 | Disconnect Device | mr mr m | N/A |
| 4.10.2 | Switches and relays | TEX TEX LIFE WITE | N/A |

| 5 | ELECTRICALLY-CAUSED INJURY | | C P.CC |
|---------|--|--|--------|
| 5.2 | Classification and limits of electrical energy | y sources | Р |
| 5.2.2 | ES1, ES2 and ES3 limits | All internal circuits are considered to be ES1 | P |
| 5.2.2.2 | Steady-state voltage and current limits | (See appended table 5.2) | Р |
| 5.2.2.3 | Capacitance limits | No such capacitors | N/A |
| 5.2.2.4 | Single pulse limits | No such single pulses | N/A |
| 5.2.2.5 | Limits for repetitive pulses | No such repetitive pulses | N/A |
| 5.2.2.6 | Ringing signals | No such ringing signals | N/A |
| 5.2.2.7 | Audio signals | Mr. Mr. Mr. Mr. Mr. | Р |
| 5.3 | Protection against electrical energy source | S A ART SEE STATE | N/A |



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| Clause | Requirement – Test | Result – Remark | Verdict |
|------------|---|---|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| 5.3.1 | General Requirements for accessible parts to ordinary, instructed and skilled persons | the tity the tity | N/A |
| 5.3.1 a) | Accessible ES1/ES2 derived from ES2/ES3 circuits | Mr. Mr. Mr. Mr. | N/A |
| 5.3.1 b) | Skilled personsnot unintentional contact ES3 bare conductors | OLIEK WHITEK WHITEK WHITE | N/A |
| 5.3.2.1 | Accessibility to electrical energy sources and safeguards | Only ES1 circuit | N/A |
| - LEX | Accessibility to outdoor equipment bare parts | | N/A |
| 5.3.2.2 | Contact requirements | WILL MULL MULL AND | N/A |
| THE S | Test with test probe from Annex V | a at at a | * _ |
| 5.3.2.2 a) | Air gap – electric strength test potential (V) | White Mile Mail Mark | N/A |
| 5.3.2.2 b) | Air gap – distance (mm) | at let let let | N/A |
| 5.3.2.3 | Compliance | The Mary Mary Mary | N/A |
| 5.3.2.4 | Terminals for connecting stripped wire | No stripped wire used. | N/A |
| 5.4 | Insulation materials and requirements | The Mr. M. A. | Р |
| 5.4.1.2 | Properties of insulating material | No insulation as a safeguard. | N/A |
| 5.4.1.3 | Material is non-hygroscopic | My My My | N/A |
| 5.4.1.4 | Maximum operating temperature for insulating materials | (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4) | JIN'S P |
| 5.4.1.5 | Pollution degrees | The Little Little | N/A |
| 5.4.1.5.2 | Test for pollution degree 1 environment and for an insulating compound | with the text | N/A |
| 5.4.1.5.3 | Thermal cycling test | write mr. mr. m | N/A |
| 5.4.1.6 | Insulation in transformers with varying dimensions | at let let it | N/A |
| 5.4.1.7 | Insulation in circuits generating starting pulses | MULL MULL MULL MILL | N/A |
| 5.4.1.8 | Determination of working voltage | LEK TEK STEK STEK | N/A |
| 5.4.1.9 | Insulating surfaces | er me me m | N/A |
| 5.4.1.10 | Thermoplastic parts on which conductive metallic parts are directly mounted | EX WHITEK WHITEK WHITEK | N/A |
| 5.4.1.10.2 | Vicat test | - It let let s | N/A |
| 5.4.1.10.3 | Ball pressure test | MULL MUL MULL AND | N/A |
| 5.4.2 | Clearances | at the the the | N/A |
| 5.4.2.1 | General requirements | me me me | N/A |
| TER WALTE | Clearances in circuits connected to AC Mains, Alternative method | LIER WILLER WILLER WILLER | N/A |
| 5.4.2.2 | Procedure 1 for determining clearance | at at at all | N/A |
| 20, | Temporary overvoltage | MULL MUT MUT M | |
| 5.4.2.3 | Procedure 2 for determining clearance | at at at a | N/A |



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| Clause | Requirement – Test | Result – Remark | Verdict |
|-------------|---|---------------------------------------|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| 5.4.2.3.2.2 | a.c. mains transient voltage | Me And And | |
| 5.4.2.3.2.3 | d.c. mains transient voltage | LIEF VILLE WILLER | white — |
| 5.4.2.3.2.4 | External circuit transient voltage | 41. 41. | - A |
| 5.4.2.3.2.5 | Transient voltage determined by measurement | CALLER WILLIAM WILLIAM | |
| 5.4.2.4 | Determining the adequacy of a clearance using an electric strength test | TER STIER WITER NO | N/A |
| 5.4.2.5 | Multiplication factors for clearances and test voltages | t tex stex site | N/A |
| 5.4.2.6 | Clearance measurement | Mr. Mr. An | N/A |
| 5.4.3 | Creepage distances | CIEX SLIER WITH | N/A |
| 5.4.3.1 | General | 24, 24, 2,, | N/A |
| 5.4.3.3 | Material group | LIER CLIER WILLER | 7, 1 |
| 5.4.3.4 | Creepage distances measurement | | A N/A |
| 5.4.4 | Solid insulation | ET WILL MULLE MULL | N/A |
| 5.4.4.1 | General requirements | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A |
| 5.4.4.2 | Minimum distance through insulation | WALLE WALL WALL | N/A |
| 5.4.4.3 | Insulating compound forming solid insulation | A STATE | N/A |
| 5.4.4.4 | Solid insulation in semiconductor devices | and the same of | N/A |
| 5.4.4.5 | Insulating compound forming cemented joints | | N/A |
| 5.4.4.6 | Thin sheet material | in mer mer m | N/A |
| 5.4.4.6.1 | General requirements | et tet tet at | N/A |
| 5.4.4.6.2 | Separable thin sheet material | Mr. Mr. M. | N/A |
| unite un | Number of layers (pcs) | TEK LIEK NITER | N/A |
| 5.4.4.6.3 | Non-separable thin sheet material | me me | N/A |
| Tile Mill | Number of layers (pcs) | TER STEET WITE OF | N/A |
| 5.4.4.6.4 | Standard test procedure for non-separable thin sheet material | | N/A |
| 5.4.4.6.5 | Mandrel test | , mer me m | N/A |
| 5.4.4.7 | Solid insulation in wound components | - TEN JEN JE | N/A |
| 5.4.4.9 | Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V) | THE THE THE | N/A |
| TEX TEX | Alternative by electric strength test, tested voltage (V), K _R | muri muri muri | N/A |
| 5.4.5 | Antenna terminal insulation | LIE NALTE MALL WA | N/A |
| 5.4.5.1 | General | a a at a | / N/A |
| 5.4.5.2 | Voltage surge test | WALL MALL WALL | N/A |
| 5.4.5.3 | Insulation resistance (MΩ) | 1 1 1 | N/A |



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|----------------|--|-----------------------------------|----------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| Mr. | The same same water about | Exercity will all . | NIA TIL |
| - 12 Et | Electric strength test | | N/A |
| 5.4.6 | Insulation of internal wire as part of supplementary safeguard | MULL MULL MULL AND | N/A |
| 5.4.7 | Tests for semiconductor components and for cemented joints | INLIER WALTER WALTER WALT | N/A |
| 5.4.8 | Humidity conditioning | et tet tet stet | N/A |
| - TEX | Relative humidity (%), temperature (°C), duration (h) | mer mer mi | <u> </u> |
| 5.4.9 | Electric strength test | intie men men a | N/A |
| 5.4.9.1 | Test procedure for type test of solid insulation | A A At At . | N/A |
| 5.4.9.2 | Test procedure for routine test | Write Mrs. Mus. Mr. | N/A |
| 5.4.10 | Safeguards against transient voltages from external circuits | LIEK WILLER WALLER | N/A |
| 5.4.10.1 | Parts and circuits separated from external circuits | a se se se | N/A |
| 5.4.10.2 | Test methods | e unite mail mail | N/A |
| 5.4.10.2.1 | General | at at at | N/A |
| 5.4.10.2.2 | Impulse test | MULL MULL MULL M | N/A |
| 5.4.10.2.3 | Steady-state test | at a late of | N/A |
| 5.4.10.3 | Verification for insulation breakdown for impulse test | - Inc. in | N/A |
| 5.4.11 | Separation between external circuits and earth | ITE WALL WALL WALL | N/A |
| 5.4.11.1 | Exceptions to separation between external circuits and earth | A SITE STEEL MITER | N/A |
| 5.4.11.2 | Requirements | 70, 20, | N/A |
| Mr. W | SPDs bridge separation between external circuit and earth | antier untie unifer un | N/A |
| LIE WALL | Rated operating voltage U _{op} (V) | TEX TEX STER WITE | _ |
| at at | Nominal voltage U _{peak} (V) | Le Maria | _ |
| MULL | Max increase due to variation ΔU _{sp} | ER STER WITE WITE | _ n_ |
| . At | Max increase due to ageing ΔU _{sa} | 711 - 5 × | _ |
| 5.4.11.3 | Test method and compliance | CLIET WITE WHILE W | N/A |
| 5.4.12 | Insulating liquid | a st sit | N/A |
| 5.4.12.1 | General requirements | MULTER MALLE WALL WALL WALL | N/A |
| 5.4.12.2 | Electric strength of an insulating liquid | st st st st | N/A |
| 5.4.12.3 | Compatibility of an insulating liquid | THE MILL MILL MULT | N/A |
| 5.4.12.4 | Container for insulating liquid | at at at at | N/A |
| 5.5 | Components as safeguards | were any any | N/A |
| 5.5.1 | General | No such components as safeguards. | N/A |



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| Clause | EN IEC 62368- | Result – Remark | Verdict |
|-------------|--|---|----------|
| Clause | Requirement – Test | Result - Remark | verdict |
| 5.5.2 | Capacitors and RC units | The The M | N/A |
| 5.5.2.1 | General requirement | THE LIES SLIES | N/A |
| 5.5.2.2 | Safeguards against capacitor discharge after disconnection of a connector | et tet let | N/A |
| 5.5.3 | Transformers | Very Aug Aug Aug | N/A |
| 5.5.4 | Optocouplers | self stelf street set | N/A |
| 5.5.5 | Relays | 10 10 10 10 10 | N/A |
| 5.5.6 | Resistors | t itel site sites | N/A |
| 5.5.7 | SPDs | 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 | N/A |
| 5.5.8 | Insulation between the mains and an external circuit consisting of a coaxial cable | MILLER WHITE WALLES | N/A |
| 5.5.9 | Safeguards for socket-outlets in outdoor equipment | LIEF WHILE WHILE WH | N/A |
| MITE | RCD rated residual operating current (mA) | et let let like | |
| 5.6 | Protective conductor | and the m | N/A |
| 5.6.2 | Requirement for protective conductors | t get get sites | N/A |
| 5.6.2.1 | General requirements | Class III equipment | N/A |
| 5.6.2.2 | Colour of insulation | AFF O STIFE OF | N/A |
| 5.6.3 | Requirement for protective earthing conductors | | N/A |
| in with | Protective earthing conductor size (mm²) | THE SUITE WITH WILL | <u> </u> |
| * INITEX | Protective earthing conductor serving as a reinforced safeguard | t Tet Tet Willed | N/A |
| STEK | Protective earthing conductor serving as a double safeguard | The the text | N/A |
| 5.6.4 | Requirements for protective bonding conductors | MULL MULL MARY | N/A |
| 5.6.4.1 | Protective bonding conductors | LET LET LIET S | N/A |
| | Protective bonding conductor size (mm²) | ing my my my | _ |
| 5.6.4.2 | Protective current rating (A) | et get get will | N/A |
| 5.6.5 | Terminals for protective conductors | 21/2 21/2 21/2 | N/A |
| 5.6.5.1 | Terminal size for connecting protective earthing conductors (mm) | WALTER WALTER WALTER | N/A |
| INLITER OUT | Terminal size for connecting protective bonding conductors (mm) | MALTER MALTER WALTER | N/A |
| 5.6.5.2 | Corrosion | the set of | N/A |
| 5.6.6 | Resistance of the protective bonding system | LIE WALL MAL WA | N/A |
| 5.6.6.1 | Requirements | the state of | N/A |
| 5.6.6.2 | Test Method | MULL MULL MULL | N/A |
| 5.6.6.3 | Resistance (Ω) or voltage drop | at at at | N/A |



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|----------------|---|-----------------------------|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| 5.6.7 | Reliable connection of a protective earthing conductor | | N/A |
| 5.6.8 | Functional earthing | They have my | N/A |
| Life and | Conductor size (mm²) | TEK TEK WEEK MITER | N/A |
| .L .N | Class II with functional earthing marking | We are the man | N/A |
| WILL | Appliance inlet cl &cr (mm) | THE LIER SLIER WATER OF | N/A |
| 5.7 | Prospective touch voltage, touch current and p | rotective conductor current | N/A |
| 5.7.2 | Measuring devices and networks | H SLIFE WILL MILLE WA | N/A |
| 5.7.2.1 | Measurement of touch current | The state of | N/A |
| 5.7.2.2 | Measurement of voltage | CLIER WITE WITE WILL | N/A |
| 5.7.3 | Equipment set-up, supply connections and earth connections | TEX STEX STEX MITEX | N/A |
| 5.7.4 | Unearthed accessible parts | 2 Mr. 20. | N/A |
| 5.7.5 | Earthed accessible conductive parts | EX WIFE WIFE WITE W | N/A |
| 5.7.6 | Requirements when touch current exceeds ES2 limits | The The State of | N/A |
| | Protective conductor current (mA) | Mr. An. An. | N/A |
| NETE WA | Instructional Safeguard | AL RUTE MITE | N/A |
| 5.7.7 | Prospective touch voltage and touch current associated with external circuits | The let | N/A |
| 5.7.7.1 | Touch current from coaxial cables | in mer in an | N/A |
| 5.7.7.2 | Prospective touch voltage and touch current associated with paired conductor cables | * Whitek whitek whitek on | N/A |
| 5.7.8 | Summation of touch currents from external circuits | NITER MITER WHITE | N/A |
| LITEN MAL | a) Equipment connected to earthed external circuits, current (mA) | The lift writer writer | N/A |
| EY NITEY | b) Equipment connected to unearthed external circuits, current (mA) | at at at the | N/A |
| 5.8 | Backfeed safeguard in battery backed up supplies | | N/A |
| NUTER | Mains terminal ES | No battery used | N/A |
| 20, 1 | Air gap (mm) | me, me me an | N/A |

| 6 | ELECTRICALLY- CAUSED FIRE Classification of PS and PIS | | P |
|-------|---|---|------------|
| 6.2 | | | |
| 6.2.2 | Power source circuit classifications | All internal and output circuits are considered to be PS1 circuits. | TEX WALTER |
| 6.2.3 | Classification of potential ignition sources | See the following details. | N/A |



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|----------------|--|--|----------|--|
| Clause | Requirement – Test | Result – Remark | Verdict | |
| Mer | all all the state of | EL WILL SUILL MULL MU | 711 | |
| 6.2.3.1 | Arcing PIS | All internal circuits are not considered as arcing PIS. | + NALTEX | |
| NIFEK WAL | THE WALTER WALTER WALTER WALTER WALTER | They are supplied by external power supply whose open voltage is less than 50V. | N/A | |
| 6.2.3.2 | Resistive PIS | All internal circuits of PS1 circuits | N/A | |
| 6.3 | Safeguards against fire under normal operating conditions | and abnormal operating | P | |
| 6.3.1 | No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials | (See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6) | P | |
| LIEK WALT | Combustible materials outside fire enclosure | At least HB, or pass the Glow- Wire test at 550°C according to IEC 60695-2-11. | MUTEL P | |
| 6.4 | Safeguards against fire under single fault condit | tions | O Po | |
| 6.4.1 | Safeguard method | Method by control of fire spread applied | Р | |
| 6.4.2 | Reduction of the likelihood of ignition under single fault conditions in PS1 circuits | White White White Whi | N/A | |
| 6.4.3 | Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits | THE MILES WILLIAM | N/A | |
| 6.4.3.1 | Supplementary safeguards | THE THE | N/A | |
| 6.4.3.2 | Single Fault Conditions | re mer mer me a | N/A | |
| , LITE | Special conditions for temperature limited by fuse | t tet tet liter al | N/A | |
| 6.4.4 | Control of fire spread in PS1 circuits | All internal circuits of PS1 circuits | P | |
| 6.4.5 | Control of fire spread in PS2 circuits | WILL MULL MILL MILL | N/A | |
| 6.4.5.2 | Supplementary safeguards | at at let let | N/A | |
| 6.4.6 | Control of fire spread in PS3 circuits | recommendations and the | N/A | |
| 6.4.7 | Separation of combustible materials from a PIS | at let let let | N/A | |
| 6.4.7.2 | Separation by distance | Any Mr. Mr. An | N/A | |
| 6.4.7.3 | Separation by a fire barrier | - TEX TEX TEXT | N/A | |
| 6.4.8 | Fire enclosures and fire barriers | Only PS1 circuit , no fire enclosures or barriers required | N/A | |
| 6.4.8.2 | Fire enclosure and fire barrier material properties | MULL MULL MULL MULL | N/A | |
| 6.4.8.2.1 | Requirements for a fire barrier | et let let let | N/A | |
| 6.4.8.2.2 | Requirements for a fire enclosure | The me me | N/A | |
| 6.4.8.3 | Constructional requirements for a fire enclosure and a fire barrier | A Writer Whiter Whiter Wh | N/A | |
| 6.4.8.3.1 | Fire enclosure and fire barrier openings | No openings | N/A | |



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| Clause | Requirement – Test | Result – Remark | Verdict |
|-----------|---|---|----------|
| Aller . | | ite with many one our | 40 |
| 6.4.8.3.2 | Fire barrier dimensions | No fire barrier used. | N/A |
| 6.4.8.3.3 | Top openings and properties | No top opening | N/A |
| at 3 | Openings dimensions (mm) | The state of the state of | N/A |
| 6.4.8.3.4 | Bottom openings and properties | No bottom opening | N/A |
| EX JEX | Openings dimensions (mm) | a start set | N/A |
| - Like | Flammability tests for the bottom of a fire enclosure | the mutt mutt mutt w | N/A |
| 2017. 1 | Instructional Safeguard | et riter mite while whi | N/A |
| 6.4.8.3.5 | Side openings and properties | No side openings | N/A |
| ine in | Openings dimensions (mm) | MITE MALTE MALTE WALL | N/A |
| 6.4.8.3.6 | Integrity of a fire enclosure, condition met: a), b) or c) | THE STEE STEEL SPITER | N/A |
| 6.4.8.4 | Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating | et fet fet stat state | N/A |
| 6.4.9 | Flammability of insulating liquid | Mr. Mr. M. 21 | N/A |
| 6.5 | Internal and external wiring | | Р |
| 6.5.1 | General requirements | The internal wires are complied with UL standard, of which the test method and testing condition are equal to IEC/EN 60695-11-21. | WALTER O |
| 6.5.2 | Requirements for interconnection to building wiring | No such wire used | N/A |
| 6.5.3 | Internal wiring size (mm2) for socket-outlets | No such wire used | N/A |
| 6.6 | Safeguards against fire due to the connection to a | dditional equipment | Р |
| 7 | INJURY CAUSED BY HAZARDOUS SUBSTANC | EES | Р |
| 7.2 | Reduction of exposure to hazardous substance | | N/A |
| 7.3 | Ozone exposure | the this is | N/A |
| 7.4 | Use of personal safeguards or personal protec | tive equipment (PPE) | N/A |
| 100 | Personal safeguards and instructions | | _ |
| 7.5 | Use of instructional safeguards and instruction | is with white with | N/A |
| Clerk of | Instructional safeguard (ISO 7010) | | _ |
| 7.6 | Batteries and their protection circuits | CLE WELL SHE WAY | Р |

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| 8 | MECHANICALLY-CAUSED INJURY | Р |
|-----|---|-------|
| 8.2 | Mechanical energy source classifications | P.TET |
| 8.3 | Safeguards against mechanical energy sources | Р |
| 8.4 | Safeguards against parts with sharp edges and corners | Р |



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|----------------|---|--|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| 211 | | Er Till Mer Me | 100 |
| 8.4.1 | Safeguards | | P+ |
| mr m | Instructional Safeguard: | MS1: Edges and corners of enclosure | WP. |
| 8.4.2 | Sharp edges or corners | Edges and corners of the enclosure are rounded. | on Li P |
| 8.5 | Safeguards against moving parts | at let let let | N/A |
| 8.5.1 | Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts | No moving parts. | N/A |
| Mr. M | MS2 or MS3 part required to be accessible for the function of the equipment | See above. | N/A |
| mer we | Moving MS3 parts only accessible to skilled person | alier while while while | N/A |
| 8.5.2 | Instructional safeguard | in in the | N/A |
| 8.5.4 | Special categories of equipment containing moving parts | STEE WILL MILL MICH | N/A |
| 8.5.4.1 | General | ex liex niter uniter an | N/A |
| 8.5.4.2 | Equipment containing work cells with MS3 parts | 711 721 | N/A |
| 8.5.4.2.1 | Protection of persons in the work cell | ALTER WITE WALTE WALTE | N/A |
| 8.5.4.2.2 | Access protection override | The state of the s | N/A |
| 8.5.4.2.2.1 | Override system | The Marie Annie | N/A |
| 8.5.4.2.2.2 | Visual indicator | the life | N/A |
| 8.5.4.2.3 | Emergency stop system | The water was a | N/A |
| WILLER | Maximum stopping distance from the point of activation (m) | A WILLER MILITER MULTER MIN | N/A |
| WALLEK WAL | Space between end point and nearest fixed mechanical part (mm) | The still willed while | N/A |
| 8.5.4.2.4 | Endurance requirements | in the state of | N/A |
| TIL AUT | Mechanical system subjected to 100 000 cycles of operation | NITER WHITE WHITE WHITE | N/A |
| ET NALTET | - Mechanical function check and visual inspection | EL STEL STEE WITE ON | N/A |
| | - Cable assembly | Mr. Mr. Am | N/A |
| 8.5.4.3 | Equipment having electromechanical device for destruction of media | UNITED WALTER WALTER WAL | N/A |
| 8.5.4.3.1 | Equipment safeguards | TER LIER NITER WITE | N/A |
| 8.5.4.3.2 | Instructional safeguards against moving parts: | m. m. m. m. | N/A |
| 8.5.4.3.3 | Disconnection from the supply | TEX STER MITE WITE | N/A |
| 8.5.4.3.4 | Cut type and test force (N): | 24 24 | N/A |
| 8.5.4.3.5 | Compliance | ex rife write write wr | N/A |
| 8.5.5 | High pressure lamps | No high pressurelamps used. | N/A |
| me, m | Explosion test | alife will write while | N/A |



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| 01 | EN IEC 62368- | | \ |
|-------------|--|---|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| 8.5.5.3 | Glass particles dimensions (mm): | With the site of | N/A |
| 8.6 | Stability of equipment | CLIER WILL WALL WA | N/A |
| 8.6.1 | General | MS1: Mass of the unit | N/A |
| 10 21/2 | Instructional safeguard | plie white white whi | N/A |
| 8.6.2 | Static stability | a st set set | N/A |
| 8.6.2.2 | Static stability test | ite more more more | N/A |
| 8.6.2.3 | Downward force test | t et tet set. | N/A |
| 8.6.3 | Relocation stability | mus mis me in | N/A |
| WITE VI | Wheels diameter (mm): | TEK TEK STEK OUT | |
| | Tilt test | Mrs. Mrs. Mrs. And | N/A |
| 8.6.4 | Glass slide test | TEX STEX STEX SOLVES | N/A |
| 8.6.5 | Horizontal force test: | - 1/12 1/1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/ | N/A |
| 8.7 | Equipment mounted to wall, ceiling or other stru | ucture | N/A |
| 8.7.1 | Mount means type: | No wall or ceiling | N/A |
| 8.7.2 | Test methods | WILL WILL MUTTER WALL WA | N/A |
| Alt (| Test 1, additional downwards force (N): | | N/A |
| in an | Test 2, number of attachment points and test force | A Anti Muri | N/A |
| Set of the | (N) | the second | NI/A |
| | Test 3 Nominal diameter (mm) and applied torque (Nm) | ric were were my | N/A |
| 8.8 | Handles strength | EK JEK JIEK MITER AL | N/A |
| 8.8.1 | General | No handles | N/A |
| 8.8.2 | Handle strength test | LIER SLIER WILLERSON | N/A |
| | Number of handles: | 711 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | _ |
| in an | Force applied (N) | ALTER OLIER WALTE WALTE | 10,000 |
| 8.9 | Wheels or casters attachment requirements | | N/A |
| 8.9.2 | Pull test | No such parts | N/A |
| 8.10 | Carts, stands and similar carriers | a st set set | N/A |
| 8.10.1 | General | No carts, stands or similar carriers | N/A |
| 8.10.2 | Marking and instructions | CLIEB WHIE WAITE WALL | N/A |
| 8.10.3 | Cart, stand or carrier loading test | or the state of | N/A |
| " Alle | Loading force applied (N) | LIE WILL WALL WALL | N/A |
| 8.10.4 | Cart, stand or carrier impact test | a at at at | N/A |
| 8.10.5 | Mechanical stability | WALL MALL MALL O | N/A |
| JEK. | Force applied (N): | at at at | (E) JE |



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|----------|---|---------------------|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| ahr. | Mr. W. Test | THE WILL WITH THE | The The |
| 8.10.6 | Thermoplastic temperature stability | y and a second | N/A |
| 8.11 | Mounting means for slide-rail mounted equip | ment (SRME) | N/A |
| 8.11.1 | General | No such parts | N/A |
| 8.11.2 | Requirements for slide rails | PLIES WALTE WALL VI | N/A |
| CEY JEY | Instructional Safeguard | | N/A |
| 8.11.3 | Mechanical strength test | THE WALL MALL WAS | N/A |
| 8.11.3.1 | Downward force test, force (N) applied | in the set set | N/A |
| 8.11.3.2 | Lateral push force test | iti white must must | N/A |
| 8.11.3.3 | Integrity of slide rail end stops | at let let liet | N/A |
| 8.11.4 | Compliance | Mur. Aur. Mur. | N/A |
| 8.12 | Telescoping or rod antennas | - Jet Jet Jet . | N/A |
| | Button/ball diameter (mm) | : No such parts | _ |

| 9 | THERMAL BURN INJURY | | Р |
|-------|--|---|-----------------------|
| 9.2 | Thermal energy source classifications | | Р |
| 9.3 | Touch temperature limits | The Tay of the tay | Р |
| 9.3.1 | Touch temperatures of accessible parts | : (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6) | nt P |
| 9.3.2 | Test method and compliance | See B.1.6 & B.2.3 | P |
| 9.4 | Safeguards against thermal energy sources | s and and any | Р |
| 9.5 | Requirements for safeguards | | P |
| 9.5.1 | Equipment safeguard | Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions. | P WALTER WALTER |
| 9.5.2 | Instructional safeguard | : Instructional safeguard is not required. | N/A |
| 9.6 | Requirements for wireless power transmitte | ers ret with with white | N/A |
| 9.6.1 | General | No wireless power transmitters | N/A |
| 9.6.2 | Specification of the foreign objects | ALTE TALLE MALL MALL MALL | N/A |
| 9.6.3 | Test method and compliance | | N/A |

| 10 | RADIATION | | Р |
|---------|--|---|---------|
| 10.2 | Radiation energy source classification | | N. Bill |
| 10.2.1 | General classification | See below | CE POR |
| m | Lasers | et intre white white wh | _ |
| MATER N | Lamps and lamp systems | RS1: LED only for indicating use which is considered as low | _ |



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| Lange Angle | EN IEC 62368-1 | | | | |
|-------------|--------------------|-------------|-----------------|---------|--|
| Clause | Requirement – Test | it must any | Result – Remark | Verdict | |

| | It let tex tex tex ster with with | power application. | |
|------------|--|---|-------|
| مالارتق ما | Image projectors: | THE LITTER SLITER MILES | |
| · L | X-Ray: | Mr. Ary and Ary | _ |
| Tile Mil | Personal music player: | ITEX SITES MITES MITES | |
| 10.3 | Safeguards against laser radiation | West in the | N/A |
| ALCO TA | The standard(s) equipment containing laser(s) comply | No laser radiation | N/A |
| 10.4 | Safeguards against optical radiation from lamps and lamp systems (including LED types) | | NP. |
| 10.4.1 | General requirements | LED indication light: Classed as RS1 (Exempt Group) | W P W |
| LIEK WALT | Instructional safeguard provided for accessible radiation level needs to exceed | LITER WILLER WILLER | N/A |
| y Jet | Risk group marking and location: | | N/A |
| 21/2 | Information for safe operation and installation | The Wall Wall Wall WA | N/A |
| 10.4.2 | Requirements for enclosures | at at alt of | N/A |
| 211. 2 | UV radiation exposure: | white mit mit me | N/A |
| 10.4.3 | Instructional safeguard | TEX LIFE | N/A |
| 10.5 | Safeguards against X-radiation | The Mark Mark | N/A |
| 10.5.1 | Requirements | No X-radiation | N/A |
| | Instructional safeguard for skilled persons | ry mr. m. m. r | _ |
| 10.5.3 | Maximum radiation (pA/kg) | the telest of the second | _ |
| 10.6 | Safeguards against acoustic energy sources | Mr. Mr. M. | Р |
| 10.6.1 | General | . The still outling on the | O P |
| 10.6.2 | Classification | RS2 | Р |
| iti with | Acoustic output L _{Aeq,T} , dB(A): | See test report No. WTF25X06145362Y | N/A |
| er white | Unweighted RMS output voltage (mV): | See test report No. WTF25X06145362Y | N/A |
| MALTER | Digital output signal (dBFS) | See test report No. WTF25X06145362Y | N/A |
| 10.6.3 | Requirements for dose-based systems | at at at | N/A |
| 10.6.3.1 | General requirements | WILL MILL MULL MULL | N/A |
| 10.6.3.2 | Dose-based warning and automatic decrease | L St St St | N/A |
| 10.6.3.3 | Exposure-based warning and requirements | TIE WHIT WALL MAN A | N/A |
| t aller | 30 s integrated exposure level (MEL30): | at the fifty | N/A |
| 20 | Warning for MEL ≥ 100 dB(A) | murit mer mer m | N/A |
| 10.6.4 | Measurement methods | at at at a | Р |



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| | EN IEC 62368- | 1th mit wall wall | |
|----------|--|--|---------------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| Aller. | Mr. M. A. State of | TER WITE WILL MALL | me me |
| 10.6.5 | Protection of persons | 70 7 | P.F |
| | Instructional safeguards | See user manual | mes and a |
| 10.6.6 | Requirements for listening devices (headphones, earphones, etc.) | Tex stex outer or | ITEK WALTE WA |
| 10.6.6.1 | Corded listening devices with analogue input | ing any any and | N/A |
| in and | Listening device input voltage (mV) | TER SITER WITER WITE | N/A |
| 10.6.6.2 | Corded listening devices with digital input | 4 | N/A |
| Aller 1 | Max. acoustic output L _{Aeq,T} , dB(A) | ALTER MITE WALLE | N/A |
| 10.6.6.3 | Cordless listening devices | 71 7 | P- |
| ing in | Max. acoustic output $L_{Aeq,T}$, dB(A): | See test report No. WTF25X06145362Y | VE MED M |

| В | NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS | | Р |
|---------|---|--|-----------------|
| B.1 | General | the wife must were me | Р |
| B.1.5 | Temperature measurement conditions | (See appended table B.1.5) | P |
| B.2 | Normal operating conditions | | ₹, b |
| B.2.1 | General requirements: | (See Test Item Particulars and appended test tables) | MILT P |
| iek whi | Audio Amplifiers and equipment with audio amplifiers: | (See appended table B.2.5) | ALTEK P |
| B.2.3 | Supply voltage and tolerances | Rated input 5Vdc | , P |
| B.2.5 | Input test: | (See appended table B.2.5) | Р |
| B.3 | Simulated abnormal operating conditions | | - P+ |
| B.3.1 | General | (See appended table B.3) | △// P |
| B.3.2 | Covering of ventilation openings | No ventilation openings. | N/A |
| ir. 14 | Instructional safeguard | RITE WALL WALL WALL | N/A |
| B.3.3 | DC mains polarity test | Not supplied by D.C. mains | N/A |
| B.3.4 | Setting of voltage selector | No such selector | N/A |
| B.3.5 | Maximum load at output terminals | No such selector | N/A |
| B.3.6 | Reverse battery polarity | No such output terminals | N/A |
| B.3.7 | Audio amplifier abnormal operating conditions | (See appended table B.3) | _E CP |
| B.3.8 | Safeguards functional during and after abnormal operating conditions | All safeguards remained effective. | P |
| B.4 | Simulated single fault conditions | ALTE MALT WALL WALL S | Р |
| B.4.1 | General | at the left of | P.S |
| B.4.2 | Temperature controlling device | white mer me m | N/A |
| B.4.3 | Blocked motor test | No motors | N/A |



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|----------|--|---|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| B.4.4 | Functional insulation | See below. | Р |
| B.4.4.1 | Short circuit of clearances for functional insulation | (See appended table B.4) | JIP P |
| B.4.4.2 | Short circuit of creepage distances for functional insulation | (See appended table B.4) | JALTE P |
| B.4.4.3 | Short circuit of functional insulation on coated printed boards | No coated printed boards within the EUT | N/A |
| B.4.5 | Short-circuit and interruption of electrodes in tubes and semiconductors | (See appended table B.4) | P |
| B.4.6 | Short circuit or disconnection of passive components | (See appended table B.4) | P |
| B.4.7 | Continuous operation of components | The EUT is continuous operating type and no such components intended for short time operation or intermittent operation | N/A |
| B.4.8 | Compliance during and after single fault conditions: | No change to circuits classified in 5.3 | Р |
| B.4.9 | Battery charging and discharging under single fault conditions | See annex M | P |
| С | UV RADIATION | | N/A |
| C.1 | Protection of materials in equipment from UV radiation | | N/A |
| C.1.2 | Requirements | No such UV generated from the equipment. | N/A |
| C.1.3 | Test method | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | N/A |
| C.2 | UV light conditioning test | the write write we | N/A |
| C.2.1 | Test apparatus :: | at at all a | N/A |
| C.2.2 | Mounting of test samples | WHILE MUTTE MUTT MUTE MUTE | N/A |
| C.2.3 | Carbon-arc light-exposure test | it it let let | N/A |
| C.2.4 | Xenon-arc light-exposure test | WILL MULL MULL MULL | N/A |
| D | TEST GENERATORS | | N/A |
| D.1 | Impulse test generators | i mer mer me a | N/A |
| D.2 | Antenna interface test generator | the text of the second | N/A |
| D.3 | Electronic pulse generator | my my my | N/A |
| E | TEST CONDITIONS FOR EQUIPMENT CONTAIN | IING AUDIO AMPLIFIERS | JIN P |
| E.1 | Electrical energy source classification for audio | o signals | Р |
| TE WALTE | Maximum non-clipped output power (W) | (See appended table B.2.5) | _ |
| L st | Rated load impedance (Ω): | (See appended table 4.1.2) | _ |
| WILLY. | Open-circuit output voltage (V) | (See appended table B.2.5) | 4 |
| d | Instructional safeguard | Provided in the manual | _ |
| E.2 | Audio amplifier normal operating conditions | I TET STEET WITH MIT | √ P |



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|------------|--|--|---------|--|--|
| Clause | Requirement – Test | Result – Remark | Verdict | | |
| - sh- | Audio signal source type: | (See appended table B.2.5) | -72, | | |
| 10 LTER 01 | Audio output power (W): | | | | |
| 20, 0 | Audio output voltage (V): | (See appended table B.2.5) | | | |
| 17 EE 1912 | Rated load impedance (Ω): | (See appended table 4.1.2) | _ | | |
| <u> </u> | | | | | |
| | Requirements for temperature measurement | (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6, B.3, B.4) | LIET P | | |
| E.3 | Audio amplifier abnormal operating conditions | (See appended table B.3) | of Pol | | |
| F | EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS | INSTRUCTIONAL | P | | |
| F.1 | General | LITER STIFF SPLIES WALLE | JIP P | | |
| | Language: | English | _ | | |
| F.2 | Letter symbols and graphical symbols | ALTER MILE MILE WILL . | N. Pal | | |
| F.2.1 | Letter symbols according to IEC60027-1 | Letter symbols for quantities and units are complied with IEC 60027-1. | JEK P | | |
| F.2.2 | Graphic symbols according to IEC, ISO or manufacturer specific | Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010. | NITES . | | |
| F.3 | Equipment markings | 1 11 11 | Р | | |
| F.3.1 | Equipment marking locations | The required marking is located on the enclosure of the equipment and is easily visible. | LIF PAR | | |
| F.3.2 | Equipment identification markings | See below for details. | Р | | |
| F.3.2.1 | Manufacturer identification | See copy of marking plate | n P | | |
| F.3.2.2 | Model identification | See copy of marking plate | Р | | |
| F.3.3 | Equipment rating markings | Not direct connection to the mains, it need not bemarked with any electrical rating | MAL P.N | | |
| F.3.3.1 | Equipment with direct connection to mains | in mer mer mer m | N/A | | |
| F.3.3.2 | Equipment without direct connection to mains | - at let let o | P | | |
| F.3.3.3 | Nature of the supply voltage | mure mer mer me | N/A | | |
| F.3.3.4 | Rated voltage: | let let liet liet | N/A | | |
| F.3.3.5 | Rated frequency | mer mer me m | N/A | | |
| F.3.3.6 | Rated current or rated power | THE THE THE STEE | N/A | | |
| F.3.3.7 | Equipment with multiple supply connections | in the sure | N/A | | |
| F.3.4 | Voltage setting device | No voltage setting device. | N/A | | |
| F.3.5 | Terminals and operating devices | Mr. M. M. | N/A | | |



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| Clause | Requirement – Test | Result – Remark | Verdict |
|-----------|---|--|---|
| Clause | Requirement – Test | Result – Remark | verdict |
| F.3.5.1 | Mains appliance outlet and socket-outlet markings | TEX STEX SUFER MUST | N/A |
| F.3.5.2 | Switch position identification marking | my my my | N/A |
| F.3.5.3 | Replacement fuse identification and rating markings | WILL MILLER MILLER MILLER | N/A |
| IEK MITER | Instructional safeguards for neutral fuse: | ex rex rex ares. | N/A |
| F.3.5.4 | Replacement battery identification marking: | No such battery. | N/A |
| F.3.5.5 | Neutral conductor terminal | No such parts. | N/A |
| F.3.5.6 | Terminal marking location | me me me | N/A |
| F.3.6 | Equipment markings related to equipment classification | Class III equipment | N/A |
| F.3.6.1 | Class I equipment | at let let let | N/A |
| F.3.6.1.1 | Protective earthing conductor terminal: | in mr mr m | N/A |
| F.3.6.1.2 | Protective bonding conductor terminals: | et let tet tet atet in | N/A |
| F.3.6.2 | Equipment class marking: | The The My A | N/A |
| F.3.6.3 | Functional earthing terminal marking: | TEN THE STEEL WIT | N/A |
| F.3.7 | Equipment IP rating marking: | This equipment is classified as IPX0. | , LITER |
| F.3.8 | External power supply output marking: | No such output | N/A |
| F.3.9 | Durability, legibility and permanence of marking | Marking is considered to be legible and easily discernible. See also the following details. | P |
| F.3.10 | Test for permanence of markings | The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible. | UP UNITED AND THE WAY OF THE WAY |
| F.4 | Instructions | The state of the | P |
| 16. 111. | a) Information prior to installation and initial use | See user manual | P |
| TEX WALTE | b) Equipment for use in locations where children not likely to be present | Tex ster with writer | N/A |
| t et | c) Instructions for installation and interconnection | 70. 7 | N/A |
| w.r. | d) Equipment intended for use only in restricted access area | THE WHITE WHITE WHITE | N/A |
| J. 18 10 | e) Equipment intended to be fastened in place | LET JET JET JET | N/A |



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| Clause | Requirement – Test | Result – Remark | Verdict |
|------------|--|------------------------|---------|
| Clause | Nequirement – Test | Result - Remark | Verdict |
| | f) Instructions for audio equipment terminals | THE THE THE | N/A |
| MULL M | g) Protective earthing used as a safeguard | ALTER MALTE MALTE | N/A |
| NITEK MINI | h) Protective conductor current exceeding ES2 limits | TEX TEX STEX 10 | N/A |
| A 0 | i) Graphic symbols used on equipment | the the the | N/A |
| MULL | j) Permanently connected equipment not provided with all-pole mains switch | TEX MITTER WALTER WAL | N/A |
| MALTER | k) Replaceable components or modules providing safeguard function | t antiet whitet whites | N/A |
| TEX. | Equipment containing insulating liquid | at at let | N/A |
| 11. 11. | m) Installation instructions for outdoor equipment | MULL MULL MULL A | N/A |
| F.5 | Instructional safeguards | at at at | JEN JEP |
| G | COMPONENTS | | Р |
| G.1 | Switches | et let let let | N/A |
| G.1.1 | General | No switch used | N/A |
| G.1.2 | Ratings, endurance, spacing, maximum load | TEX TEX STER | N/A |
| G.1.3 | Test method and compliance | wer we an | N/A |
| G.2 | Relays | ALTER STEEL | N/A |
| G.2.1 | Requirements | No relay used. | N/A |
| G.2.2 | Overload test | The still mile inti | N/A |
| G.2.3 | Relay controlling connectors supplying power to other equipment | t tet stet site | N/A |
| G.2.4 | Test method and compliance | Mer Au Au | N/A |
| G.3 | Protective devices | TER LIER STEE | N/A |
| G.3.1 | Thermal cut-offs | No such component | N/A |
| TIL MUT | Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b) | NIET WHITE WHITE W | N/A |
| EK WALTE | Thermal cut-outs tested as part of the equipment as indicated in c) | IEK WALTER WALTER WALT | N/A |
| G.3.1.2 | Test method and compliance | i it it it | N/A |
| G.3.2 | Thermal links | No such component | N/A |
| G.3.2.1 | a) Thermal links tested separately according to IEC 60691 with specifics | mitely whitely wanted | N/A |
| LEX LE | b) Thermal links tested as part of the equipment | a at at | N/A |
| G.3.2.2 | Test method and compliance | ITE WALL MALL WA | N/A |
| G.3.3 | PTC thermistors | No such component | N/A |
| G.3.4 | Overcurrent protection devices | No such component | N/A |
| G.3.5 | Safeguards components not mentioned in G.3.1 to G.3.4 | THE THE STILL | N/A |



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| | EN IEC 62368- | | 1.7 |
|------------|--|-----------------------|------------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| G.3.5.1 | Non-resettable devices suitably rated and | in mile mer me | N/A |
| 0.0.0.1 | marking provided | TEX STEX STEX | WITE MILIE |
| G.3.5.2 | Single faults conditions: | my my m | N/A |
| G.4 | Connectors | TEK LIEK NLIEK IN | N/A |
| G.4.1 | Spacings | No such component | N/A |
| G.4.2 | Mains connector configuration: | TEK STER WITER WALT | N/A |
| G.4.3 | Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely | t tet tet tet | N/A |
| G.5 | Wound components | Mer Me Mi | N/A |
| G.5.1 | Wire insulation in wound components | No such component | N/A |
| G.5.1.2 | Protection against mechanical stress | ne me | N/A |
| G.5.2 | Endurance test | TEX STER NITER UNI | N/A |
| G.5.2.1 | General test requirements | 1 4 4 4 | N/A |
| G.5.2.2 | Heat run test | TER NITER INITE MALIE | N/A |
| LEX. | Test time (days per cycle) | The state of | _ |
| الم المالي | Test temperature (°C) | WITE WITE WALTE | inc. — |
| G.5.2.3 | Wound components supplied from the mains | | N/A |
| G.5.2.4 | No insulation breakdown | The sure sur | N/A |
| G.5.3 | Transformers | # A | N/A |
| G.5.3.1 | Compliance method: | THE WALL WALL WALL | N/A |
| LITER | Position: | t let tet tel | N/A |
| 21, | Method of protection | wer were my | N/A |
| G.5.3.2 | Insulation | LEF TEK TEK | N/A |
| in | Protection from displacement of windings: | aver aver aver a | _ |
| G.5.3.3 | Transformer overload tests | TEK ITEK NITEK IN | N/A |
| G.5.3.3.1 | Test conditions | in my | N/A |
| G.5.3.3.2 | Winding temperatures | THE STEE STEET MITTE | N/A |
| G.5.3.3.3 | Winding temperatures - alternative test method | 70, 70, | N/A |
| G.5.3.4 | Transformers using FIW | E SLIER WILL MALLE | N/A |
| G.5.3.4.1 | General | 74 | N/A |
| her an | FIW wire nominal diameter: | CLIFE WALTER WALTE | 10. |
| G.5.3.4.2 | Transformers with basic insulation only | | N/A |
| G.5.3.4.3 | Transformers with double insulation or reinforced insulation | PLIE MALL MALL MALL | N/A |
| G.5.3.4.4 | Transformers with FIW wound on metal or ferrite core | THE WATER WATER WATER | N/A |
| G.5.3.4.5 | Thermal cycling test and compliance | the telest of the | N/A |



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| Clause | Requirement – Test | Result – Remark | Verdict |
|-----------|---|---------------------|----------|
| " " " | | | -4/10 AU |
| G.5.3.4.6 | Partial discharge test | 711 - 12 - 14 | N/A |
| G.5.3.4.7 | Routine test | CLIER WITE WALTE | N/A |
| G.5.4 | Motors | No motors used. | N/A |
| G.5.4.1 | General requirements | NITER WHITE WHITE W | N/A |
| G.5.4.2 | Motor overload test conditions | a sha sha sh | N/A |
| G.5.4.3 | Running overload test | TER WILL MULL MULL | N/A |
| G.5.4.4.2 | Locked-rotor overload test | L A ST AST | N/A |
| | Test duration (days): | MALL MALL WALL | an - |
| G.5.4.5 | Running overload test for DC motors | et let set | N/A |
| G.5.4.5.2 | Tested in the unit | Mer Mer Mer A | N/A |
| G.5.4.5.3 | Alternative method | et let let i | N/A |
| G.5.4.6 | Locked-rotor overload test for DC motors | T. M. M. M. | N/A |
| G.5.4.6.2 | Tested in the unit | Et TEX STEX STE | N/A |
| | Maximum Temperature | the the m | N/A |
| G.5.4.6.3 | Alternative method | LIET STEE WITE | N/A |
| G.5.4.7 | Motors with capacitors | 'NL NI 2" | N/A |
| G.5.4.8 | Three-phase motors | THE STATE OF | N/A |
| G.5.4.9 | Series motors | = 3 | N/A |
| in Mer. | Operating voltage: | LIE MITE WALL WALL | <u> </u> |
| G.6 | Wire Insulation | A A A | N/A |
| G.6.1 | General | Only ES1 existed | N/A |
| G.6.2 | Enamelled winding wire insulation | at the set | N/A |
| G.7 | Mains supply cords | WALTE WALT WALL V | N/A |
| G.7.1 | General requirements | No such component | N/A |
| . 24 | Type | WILL MUE MUE ME | _ |
| G.7.2 | Cross sectional area (mm² or AWG) | at all all all | N/A |
| G.7.3 | Cord anchorages and strain relief for non- detachable power supply cords | The the tit | N/A |
| G.7.3.2 | Cord strain relief | WILL MILL MILL | N/A |
| G.7.3.2.1 | Requirements | at at all | N/A |
| 10, | Strain relief test force (N) | Will Mer Mer M | N/A |
| G.7.3.2.2 | Strain relief mechanism failure | at the the | N/A |
| G.7.3.2.3 | Cord sheath or jacket position, distance (mm): | ry mer mer m | N/A |
| G.7.3.2.4 | Strain relief and cord anchorage material | et let let liet | N/A |
| G.7.4 | Cord Entry | mr mr m | N/A |
| G.7.5 | Non-detachable cord bend protection | at at the | N/A |



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| G.7.5.1 Requirements G.7.5.2 Test method and compliance Overall diameter or minor overall dimension, D (mm) | of the street with the | N/A |
|---|--|---|
| G.7.5.2 Test method and compliance Overall diameter or minor overall dimension, D (mm) | TEX TEX TEX MITE MITE MITE MITE MITE MITE MITE MITE | N/A N/A N/A N/A N/A N/A N/A |
| G.7.5.2 Test method and compliance Overall diameter or minor overall dimension, D (mm) | TEX TEX TEX MITE MITE MITE MITE MITE MITE MITE MITE | N/A N/A N/A N/A N/A N/A N/A |
| Overall diameter or minor overall dimension, D (mm) | TEX TEX TEX MITE MITE MITE MITE MITE MITE MITE MITE | N/A N/A N/A N/A N/A N/A |
| (mm) | TEX TEX TEX MITE MITE MITE MITE MITE MITE MITE MITE | N/A N/A N/A N/A |
| G.7.6 Supply wiring space G.7.6.1 General requirements G.7.6.2 Stranded wire G.7.6.2.1 Requirements G.7.6.2.2 Test with 8 mm strand | TEX WILLEY WILLEY WILLEY JEX WILLEY WILLEY WILLEY JEX WILLEY WILLEY WILLEY JEX WILLEY WILLEY JEX WILLEY WILLEY JEX WILLEY WILLEY JEX | N/A N/A N/A N/A |
| G.7.6.1 General requirements G.7.6.2 Stranded wire G.7.6.2.1 Requirements G.7.6.2.2 Test with 8 mm strand | No such component | N/A N/A N/A N/A |
| G.7.6.2 Stranded wire G.7.6.2.1 Requirements G.7.6.2.2 Test with 8 mm strand | No such component | N/A N/A N/A |
| G.7.6.2.1 Requirements G.7.6.2.2 Test with 8 mm strand | No such component | N/A N/A N/A |
| G.7.6.2.2 Test with 8 mm strand | No such component | N/A N/A |
| | No such component | N/A |
| G.8 Varistors | No such component | |
| | No such component | NI/A |
| G.8.1 General requirements | | IN/A |
| G.8.2 Safeguards against fire | 1 1 1 1 1 | N/A |
| G.8.2.1 General | MULL MULL MULL MULL | N/A |
| G.8.2.2 Varistor overload test | at at any other | N/A |
| G.8.2.3 Temporary overvoltage test | TILE WILL MUST MUST A | N/A |
| G.9 Integrated circuit (IC) current limiters | at the state of | N/A |
| G.9.1 Requirements | No such component | N/A |
| IC limiter output current (max. 5A) | | _ |
| Manufacturers' defined drift | ""?L My My My | _ |
| G.9.2 Test Program | THE LIER LIFE MITE | N/A |
| G.9.3 Compliance | Mr. Mr. M. M. | N/A |
| G.10 Resistors | TER LITER OUTER WITE ON | N/A |
| G.10.1 General | No such component | N/A |
| G.10.2 Conditioning | A LIER WITE WITE WHI | N/A |
| G.10.3 Resistor test | | N/A |
| G.10.4 Voltage surge test | NIET MITE WALL WALL | N/A |
| G.10.5 Impulse test | The state of | N/A |
| G.10.6 Overload test | alte uniter mality main | N/A |
| G.11 Capacitors and RC units | i it at at | N/A |
| G.11.1 General requirements | No such component | N/A |
| G.11.2 Conditioning of capacitors and RC units | L A A A A S | N/A |
| G.11.3 Rules for selecting capacitors | "Mill Mrs. Mrs. Mrs. | N/A |
| G.12 Optocouplers | at at all the | N/A |
| Optocouplers comply with IEC 60747-5-5 with specifics | No such component | N/A |



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| EN IEC 62368-1 | | | | |
|----------------|--------------------|-----------------|---------|--|
| Clause | Requirement – Test | Result – Remark | Verdict | |

| | Type test voltage V _{ini,a} : | 71 7 | _ |
|------------|--|---|--------|
| ange al | Routine test voltage, V _{ini, b} : | ALTER MALTER WALTER WALTER | _ |
| G.13 | Printed boards | The second second | P |
| G.13.1 | General requirements | Only need to comply with functional insulation, see only B.4.4. | TEX OF |
| G.13.2 | Uncoated printed boards | y mi my m | N/A |
| G.13.3 | Coated printed boards | t let liet with mil | N/A |
| G.13.4 | Insulation between conductors on the same inner surface | of let let liet | N/A |
| G.13.5 | Insulation between conductors on different surfaces | min my my my | N/A |
| 21/2 | Distance through insulation: | STEE WALL WALL WALL WALL OF | N/A |
| t Clerk | Number of insulation layers (pcs) | a at at the | |
| G.13.6 | Tests on coated printed boards | white mer and an | N/A |
| G.13.6.1 | Sample preparation and preliminary inspection | at let the state | N/A |
| G.13.6.2 | Test method and compliance | MULL AUL AU | N/A |
| G.14 | Coating on components terminals | if the stiff | N/A |
| G.14.1 | Requirements | 1 1/1 1/1 | N/A |
| G.15 | Pressurized liquid filled components | TEN THE STATE OF THE STATE OF | N/A |
| G.15.1 | Requirements | No such component | N/A |
| G.15.2 | Test methods and compliance | of the tief with and | N/A |
| G.15.2.1 | Hydrostatic pressure test | 7/1. 1/1. 12. 1. | N/A |
| G.15.2.2 | Creep resistance test | LIFE MITER WALTER | N/A |
| G.15.2.3 | Tubing and fittings compatibility test | an in a | N/A |
| G.15.2.4 | Vibration test | LIFE MITER MALTE MALTE | N/A |
| G.15.2.5 | Thermal cycling test | | N/A |
| G.15.2.6 | Force test | the write while many my | N/A |
| G.15.3 | Compliance | and the state of | N/A |
| G.16 | IC including capacitor discharge function (ICX) | the antity was and | N/A |
| G.16.1 | Condition for fault tested is not required | No such component | N/A |
| S. 20. | ICX with associated circuitry tested in equipment | MUTTE MUTT MUTT MUTT | N/A |
| TEK STE | ICX tested separately | at let let let let. | N/A |
| G.16.2 | Tests | The Mary Mary Mary A. | N/A |
| JUNLIER | Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test: | Et Millet Millet Whilet Mil | _ |
| antitek al | Mains voltage that impulses to be superimposed on | TEX STEX SLITER ONLY | _ |



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| 211. | EN IEC 62368- | 13 west was | 24. 24 |
|------------|--|---|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| "IL" | White the state of | TEN STILL WITH MILL ON | 10 10 |
| | Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test | THE THE STREET MAN | - |
| G.16.3 | Capacitor discharge test: | Mur Mr. Mr. M. | N/A |
| Н | CRITERIA FOR TELEPHONE RINGING SIGNAL | S | N/A |
| H.1 | General | ar ar ar | N/A |
| H.2 | Method A | TER SLIER SLIER MITES | N/A |
| H.3 | Method B | All An An | N/A |
| H.3.1 | Ringing signal | No telephone ringing signal generated within the equipment. | N/A |
| H.3.1.1 | Frequency (Hz): | MULLI MULL MULL MULL | _ |
| H.3.1.2 | Voltage (V) | at the text state | _ |
| H.3.1.3 | Cadence; time (s) and voltage (V): | the me me me | _ |
| H.3.1.4 | Single fault current (mA):: | CH TEN TEN STEEL | |
| H.3.2 | Tripping device and monitoring voltage | Mr. Mr. M. | N/A |
| H.3.2.1 | Conditions for use of a tripping device or a monitoring voltage | WALTER WALTER WALTER WAL | N/A |
| H.3.2.2 | Tripping device | IF THE SITE | N/A |
| H.3.2.3 | Monitoring voltage (V) | - 2 24 24 | N/A |
| J | INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION | | N/A |
| J.1 500 | General | at the test start. | N/A |
| 7,1, | Winding wire insulation: | Mer Mer Me M | _ |
| OLITETE OU | Solid round winding wire, diameter (mm): | THE THE STATE OF | N/A |
| 50 | Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²): | My Art Art Tex | N/A |
| J.2/J.3 | Tests and Manufacturing | WILL MULL MULL MULL | 20 -0 |
| K | SAFETY INTERLOCKS | | N/A |
| K.1 | General requirements | is the me in a | N/A |
| WALTER | Instructional safeguard | No safety interlock provided within the equipment. | N/A |
| K.2 | Components of safety interlock safeguard mechanism | | N/A |
| K.3 | Inadvertent change of operating mode | write mile me me | N/A |
| K.4 | Interlock safeguard override | | N/A |
| K.5 | Fail-safe | the mer mer me | N/A |
| K.5.1 | Under single fault condition | of the the the | N/A |
| K.6 | Mechanically operated safety interlocks | Mer Me Me M | N/A |
| K.6.1 | Endurance requirement | LET LET JET J | N/A |



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| 70. | EN IEC 62368-1 | | |
|----------------------|---|-----------------------------|----------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| K.6.2 | Test method and compliance: | the me me m | N/A |
| K.7 | Interlock circuit isolation | LIEX NITER INLIER WALF | N/A |
| K.7.1 | Separation distance for contact gaps & interlock circuit elements | Tet Tet Sifet Street | N/A |
| EK STE | In circuit connected to mains, separation distance for contact gaps (mm) | it let tet tet | N/A |
| - TEK | In circuit isolated from mains, separation distance for contact gaps (mm) | Must me my m | N/A |
| "Elk "No. " | Electric strength test before and after the test of K.7.2 | MULTE MILL MILL AND | N/A |
| K.7.2 | Overload test, Current (A) | ALTER MITER WALLE | N/A |
| K.7.3 | Endurance test | O THE STATE OF | N/A |
| K.7.4 | Electric strength test | LIFE WALL WALL WALL | N/A |
| L | DISCONNECT DEVICES | | N/A |
| L.13 ¹⁰⁻² | General requirements | EL MILL MILL MULL MI | N/A |
| L.2 | Permanently connected equipment | at at all of | N/A |
| L.3 | Parts that remain energized | WALL MALL WALL WALL | N/A |
| L.4 | Single-phase equipment | at the life | N/A |
| L.5 | Three-phase equipment | - 2 July Aug | N/A |
| L.6 | Switches as disconnect devices | The Take | N/A |
| L.7 | Plugs as disconnect devices | ry mr. mr. m. a | N/A |
| L.8 | Multiple power sources | of the ties attention | N/A |
| | Instructional safeguard | Mer Mr. M. M. | N/A |
| М | EQUIPMENT CONTAINING BATTERIES AND TH | HEIR PROTECTION CIRCUITS | III P |
| M.1 | General requirements | Mr. Mr. Mr. | Р |
| M.2 | Safety of batteries and their cells | LIER LIER WILL MALLE | P. |
| M.2.1 | Batteries and their cells comply with relevant IEC standards | Approved battery pack used | TEK P |
| M.3 | Protection circuits for batteries provided within the equipment | The the text of | P |
| M.3.1 | Requirements | While Aug Aug Aug | Р |
| M.3.2 | Test method | Lit Let Itel Liter | P |
| 4 ES - 45 | Overcharging of a rechargeable battery | (See appended table AnnexM) | P |
| f "Ext | Excessive discharging | (See appended table AnnexM) | PN 2t |
| Mrs | Unintentional charging of a non-rechargeable battery | No such battery used | N/A |



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| 24 | EN IEC 62368-1 | | | | |
|-----------|---|---|---------------|--|--|
| Clause | Requirement – Test | Result – Remark | Verdict | | |
| WILLER ST | Reverse charging of a rechargeable battery | Built-in battery used, reverse charging is prevented | N/A | | |
| M.3.3 | Compliance | No chemical leakage, no spillage of liquid, no explosion of the battery, no emission of flame or expulsion of molten metal | P MALTER O | | |
| M.4 | Additional safeguards for equipment containing lithium battery | g a portable secondary | P | | |
| M.4.1 | General | CLIE WALTE WALTE WALTER | √P | | |
| M.4.2 | Charging safeguards | Under normal operating conditions, abnormal operating conditions or single fault conditions, the charging voltage, charging current of the battery no exceed the maximum specified charging voltage and maximum specified charging current. | METER W | | |
| M.4.2.1 | Requirements | TEX TEX WITER WITE | Р | | |
| M.4.2.2 | Compliance : | (See appended table M.4.2) | Р | | |
| M.4.3 | Fire enclosure: | Only PS1 circuit , no fire enclosures or barriers required | N/A | | |
| M.4.4 | Drop test of equipment containing a secondary lithium battery | THE MITTER WILLIAM WALTER W | ALTE PAN | | |
| M.4.4.2 | Preparation and procedure for the drop test | e at at let | P | | |
| M.4.4.3 | Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%):: | The voltage difference not exceed 5%. | P | | |
| M.4.4.4 | Check of the charge/discharge function | Three complete discharge and charge cycles under normal operating conditions. | JUN P | | |
| M.4.4.5 | Charge / discharge cycle test | No fire, explosion and any electrolyte leakage | Р | | |
| M.4.4.6 | Compliance | THE WALTER WALTER WALTER AND | Р | | |
| M.5 | Risk of burn due to short-circuit during carryin | g A A A | P | | |
| M.5.1 | Requirement | No bare conductive terminal used | √III P | | |
| M.5.2 | Test method and compliance | CHIEF WALLE WALLE WALL | N/A | | |
| M.6 | Safeguards against short-circuits | | P | | |
| M.6.1 | External and internal faults | LIE WILL MULL MULL A | N/A | | |
| M.6.2 | Compliance | The battery complied with IEC 62133-2 which considered the internal fault tests. No such explosion or fire likely to result from short circuits. | TEK PIT | | |



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| EN IEC 62368-1 | | | | |
|----------------|--------------------|-----------------|---------|--|
| Clause | Requirement – Test | Result – Remark | Verdict | |

| M.7 | Risk of explosion from lead acid and NiCd batteries | | N/A |
|----------|--|---------------------------|-------|
| M.7.1 | Ventilation preventing explosive gas concentration | uch battery used | N/A |
| Life, Wi | Calculated hydrogen generation rate: | t lifet wifet wifet | N/A |
| M.7.2 | Test method and compliance | 101, 101, 20, | N/A |
| in Maria | Minimum air flow rate, Q (m³/h) | ALTER MITER MALTER WAS | N/A |
| M.7.3 | Ventilation tests | the second | N/A |
| M.7.3.1 | General | LIER WITE WALLE WAS | N/A |
| M.7.3.2 | Ventilation test – alternative 1 | and the second | N/A |
| ine, in | Hydrogen gas concentration (%) | ET MALIE WALL MALL | N/A |
| M.7.3.3 | Ventilation test – alternative 2 | at at att | N/A |
| 11/2 | Obtained hydrogen generation rate: | MULTE MILL MILL WILL WILL | N/A |
| M.7.3.4 | Ventilation test – alternative 3 | it let let l | N/A |
| 27/2 | Hydrogen gas concentration (%) | WILL MUT, MUT, MI | N/A |
| M.7.4 | Marking: | et let let it | N/A |
| М.8 | Protection against internal ignition from external spawith aqueous electrolyte | ark sources of batteries | N/A |
| M.8.1 | General | MULL MULL | N/A |
| M.8.2 | Test method | The fift | N/A |
| M.8.2.1 | General | WHILE MULL MULL AN | N/A |
| M.8.2.2 | Estimation of hypothetical volume V_Z (m³/s): | at at the in | * = |
| M.8.2.3 | Correction factors | FILL MULT ME MILL | -40. |
| M.8.2.4 | Calculation of distance d (mm): | EL TEK TEK LITE | NITE' |
| M.9 | Preventing electrolyte spillage | Mr. M. M. | N/A |
| M.9.1 | Protection from electrolyte spillage | - TEK TEK NITER | N/A |
| M.9.2 | Tray for preventing electrolyte spillage | Mr. Mr. M. | N/A |
| M.10 | Instructions to prevent reasonably foreseeable misuse | united whited white wh | N/A |
| CLIER. | Instructional safeguard | all the till still | N/A |
| N | ELECTROCHEMICAL POTENTIALS | The My My | N/A |
| WITE AN | Material(s) used: | it itek sitek kitek | wite. |
| 0 | MEASUREMENT OF CREEPAGE DISTANCES AND C | CLEARANCES | N/A |
| TE WALL | Value of <i>X</i> (mm): | LIER OLIER WHIELD | 10 J |
| P | SAFEGUARDS AGAINST CONDUCTIVE OBJECTS | 41, 41, 42, 4 | N/A |
| P.1 | General Only | PS1 | N/A |
| P.2 | Safeguards against entry or consequences of entry | of a foreign object | N/A |
| P.2.1 | General | TET SITE WITE WITE | N/A |



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| | EN IEC 62368-1 | | |
|---------|---|------------------------|-----------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| P.2.2 | Safeguards against entry of a foreign object | The August Augus | N/A |
| Maria M | Location and Dimensions (mm) | No opening. | in and |
| P.2.3 | Safeguards against the consequences of entry of a foreign object | TEX STEX SLIEN SLIE | N/A |
| P.2.3.1 | Safeguard requirements | We are an an | N/A |
| MULL | The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment | TEX WHITE WHITE WHITE | N/A |
| MULTER | Transportable equipment with metalized plastic parts | * WHITE WHITE WHITE W | N/A |
| P.2.3.2 | Consequence of entry test: | at at 18th o | N/A |
| P.3 | Safeguards against spillage of internal liquids | While Mur Mr Mr | N/A |
| P.3.1 | General | No such liquids. | N/A |
| P.3.2 | Determination of spillage consequences | in mer me m | N/A |
| P.3.3 | Spillage safeguards | ex lex liex liex | N/A |
| P.3.4 | Compliance | my my m | N/A |
| P.4 | Metallized coatings and adhesives securing pa | rts (the contraction) | N/A |
| P.4.1 | General | No such construction. | N/A |
| P.4.2 | Tests | THE MITTER WALL | N/A |
| A 16 | Conditioning, T _C (°C): | 1 1 1 1 1 1 t | |
| in will | Duration (weeks) | TE WIFE WILL WHILE | There are |
| Q d | CIRCUITS INTENDED FOR INTERCONNECTION | WITH BUILDING WIRING | N/A |
| Q.1 | Limited power sources | MITE WALL WALL OF | N/A |
| Q.1.1 | Requirements | 1 11 11 | N/A |
| an an | a) Inherently limited output | WILL MULL MULL MU | N/A |
| JE* J | b) Impedance limited output | A A A A A | N/A |
| - 40 | c) Regulating network limited output | VILL MULL MULL MULL | N/A |
| EN LIEN | d) Overcurrent protective device limited output | at at let let | N/A |
| 10 | e) IC current limiter complying with G.9 | mer are are | N/A |
| Q.1.2 | Test method and compliance | to get get get | N/A |
| TEK | Current rating of overcurrent protective device (A) | Who will all the | N/A |
| Q.2 | Test for external circuits – paired conductor cable | mer mer mer mer | N/A |
| . Mur | Maximum output current (A): | LIER WITE WALL MALL | N/A |
| t all | Current limiting method: | 1 1 1 1 1 | 16t J |
| R w | LIMITED SHORT CIRCUIT TEST | IE MULLE MULL MULL A | N/A |
| R.1. | General | No such consideration. | N/A |



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| 10, | EN IEC 62368-1 | The Mr. Mr. | in 1) |
|----------------|---|------------------------|---------|
| Clause | Requirement – Test Res | sult – Remark | Verdict |
| an | MI N THE STEE | WILL WILL MULL MU | 411 |
| R.2 | Test setup | | N/A |
| mr n | Overcurrent protective device for test: | LIER MALIE WALL WALL | 21/2 |
| R.3 | Test method | a state of the | N/A |
| 10 11/2 | Cord/cable used for test | THE WALL WALL | 1/2. — |
| R.4 | Compliance | it at at | N/A |
| S | TESTS FOR RESISTANCE TO HEAT AND FIRE | MUTT, MILT. MULT. M | N/A |
| S.1 | Flammability test for fire enclosures and fire barrier where the steady state power does not exceed 4 00 | | N/A |
| All the | Samples, material: | a at at le | 4 554 |
| ing in | Wall thickness (mm) | ite white many man | 2/12 |
| JEK J | Conditioning (°C) | e of set set | JEE . |
| it Lex | Test flame according to IEC 60695-11-5 with conditions as set out | mer mer mer | N/A |
| m | - Material not consumed completely | WITE WALTE WALT WI | N/A |
| All the | - Material extinguishes within 30s | a state of | N/A |
| 11/2 1 | - No burning of layer or wrapping tissue | the wife with any | N/A |
| S.2 | Flammability test for fire enclosure and fire barrier | integrity | N/A |
| 12 10 | Samples, material: | ann mun | 1, - |
| SER PLIFE | Wall thickness (mm) | THE THE | LITER - |
| 2, | Conditioning (°C) | Mer. Mer. M. A | |
| S.3 | Flammability test for the bottom of a fire enclosure | TEX TEX STEEL ON | N/A |
| S.3.1 | Mounting of samples | ing the same | N/A |
| S.3.2 | Test method and compliance | TEX SITEX OUTER MOLTE | N/A |
| . . | Mounting of samples | 2/11 200 | 4 |
| ree aler | Wall thickness (mm) | ALTER WITE WALTER | 1000-1 |
| S.4 | Flammability classification of materials | | N/A |
| S.5 | Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W | white white white w | N/A |
| 20, 1 | Samples, material | in the the the | 22, |
| OLIFET AN | Wall thickness (mm): | et itet itet itet | JALTE . |
| | Conditioning (°C) | Mr. Mr. M. | |
| T NALL | MECHANICAL STRENGTH TESTS | - LIER SLIER WILLIAM | Р |
| T.1 | General Andrews Market | 20, 20, 20, | Р |
| T.2 | Steady force test, 10 N: | alier when white our | N/A |
| T.3 | Steady force test, 30 N: | yr or or | N/A |
| T.4 | Steady force test, 100 N: | LIEF SLIFE MILLER WALL | N/A |



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| 211. | EN IEC 62368- | The war were | z_{n} z_{n} |
|------------|--|---------------------------------------|-----------------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| T.5 | Steady force test, 250 N: | there were the me | N/A |
| T.6 | Enclosure impact test | TEK LITER NLIEK ML | N/A |
| - L | Fall test | The file of the | N/A |
| reter with | Swing test | LIE SLIE MLE WALE | N/A |
| T.7 | Drop test: | (See appended table T 7) | P |
| T.8 | Stress relief test: | (Goo appointed table 1.1) | N/A |
| T.9 | Glass Impact Test: | | N/A |
| T.10 | Glass fragmentation test | White write war, and | N/A |
| 1.10 | | No guide glace | N/A |
| T.11 | Number of particles counted: Test for telescoping or rod antennas | No such glass | N/A |
| (1.11 | | No such automas provided | - CO. |
| | Torque value (Nm): | within the equipment. | N/A |
| Ú WILTE | MECHANICAL STRENGTH OF CATHODE RAY T PROTECTION AGAINST THE EFFECTS OF IMPL | | N/A |
| U.1 | General | - TEX TEX STER OUT | N/A |
| The second | Instructional safeguard: | No CRT provided within the equipment. | N/A |
| U.2 | Test method and compliance for non-intrinsically protected CRTs | | N/A |
| U.3 | Protective screen | | N/A |
| V | DETERMINATION OF ACCESSIBLE PARTS | | N/A |
| V.1 | Accessible parts of equipment | | N/A |
| V.1.1 | General | mr. mr. m. | N/A |
| V.1.2 | Surfaces and openings tested with jointed test probes | MILIER WALTER WALTER WALTE | N/A |
| V.1.3 | Openings tested with straight unjointed test probes | at et let stet | N/A |
| V.1.4 | Plugs, jacks, connectors tested with blunt probe | His mi me me | N/A |
| V.1.5 | Slot openings tested with wedge probe | of the text that | N/A |
| V.1.6 | Terminals tested with rigid test wire | interior | N/A |
| V.2 | Accessible part criterion | t tet tet tet ater at | N/A |
| X TEX | ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS) | | N/A |
| it i | Clearance: | Mr. And A. Cope | N/A |
| Y Just | CONSTRUCTION REQUIREMENTS FOR OUTDO | OR ENCLOSURES | N/A |
| Y.1 | General | Indoor equipment | N/A |
| Y.2 | Resistance to UV radiation | en unit mai mai m | N/A |
| Y.3 | Resistance to corrosion | at at at a | N/A |
| Y.3 | Resistance to corrosion | WILL MULT MULT MUT | N/A |



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| EN IEC 62368-1 | | | |
|----------------|--|---------------------|-----------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| 2/2 | | the wife wints may | -1/2 -1/1 |
| Y.3.1 | Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by | TEX STEX STEX | N/A |
| Y.3.2 | Test apparatus | mr mr m | N/A |
| Y.3.3 | Water – saturated sulphur dioxide atmosphere | TEX TEX STEEL | N/A |
| Y.3.4 | Test procedure | n m m | N/A |
| Y.3.5 | Compliance | TER STIER WITER MA | N/A |
| Y.4 | Gaskets | 201 20 | N/A |
| Y.4.1 | General | * STEE MITE WALTE | N/A |
| Y.4.2 | Gasket tests | 20, 27 | N/A |
| Y.4.3 | Tensile strength and elongation tests | WITE WIFE WALLE | N/A |
| Let I | Alternative test methods | a to the | N/A |
| Y.4.4 | Compression test | LIFE WALL WILL AN | N/A |
| Y.4.5 | Oil resistance | 1 1 1 1 1 | / N/A |
| Y.4.6 | Securing means | anti unt me | N/A |
| Y.5 | Protection of equipment within an outdoor enclo | osure | N/A |
| Y.5.1 | General | Were Mure Muse | N/A |
| Y.5.2 | Protection from moisture | ight of TEX | N/A |
| 1 20 | Relevant tests of IEC 60529 or Y.5.3 | 2 24 | N/A |
| Y.5.3 | Water spray test | | N/A |
| Y.5.4 | Protection from plants and vermin | or me me m | N/A |
| Y.5.5 | Protection from excessive dust | * TEX LIFE WIT | N/A |
| Y.5.5.1 | General | The My An | N/A |
| Y.5.5.2 | IP5X equipment | LIER SLIER SLIER | N/A |
| Y.5.5.3 | IP6X equipment | 14. 14. 12. | N/A |
| Y.6 | Mechanical strength of enclosures | STER STER SPIEL | N/A |
| Y.6.1 | General | 1 1 1 | N/A |
| Y.6.2 | Impact test: | THE STIFF WITH WITH | N/A |



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| y all | EN IEC 62368-1 | | | |
|--------|--------------------|-----------------|---------|--|
| Clause | Requirement – Test | Result – Remark | Verdict | |

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

(Audio/video, information and communication technology equipment - Part 1: Safety requirements)

Differences according to EN IEC 62368-1:2020+A11:2020

Attachment Form No.....: EU_GD_IEC62368_1E

Attachment Originator.....: UL(Demko)

Master Attachment...... 2021-02-04

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| | CENELEC COMMON MODIFICATIONS (EN) | Р |
|------------|--|------------|
| WALTER W | Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018. Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z". | P Property |
| NET WALTER | Add the following annexes: Annex ZA (normative)Normative references to international publications with their corresponding European publications Annex ZB (normative)Special national conditions Annex ZC (informative)A-deviations Annex ZD (informative)IEC and CENELEC code designations for flexible cords | P. P. |
| 1 | Modification to Clause 3. | |
| 3.3.19 | Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions: | |
| 3.3.19.1 | momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2. Note 1 to entry: MEL is measured as A-weighted levels in dB. Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information. | N/A |
| 3.3.19.3 | sound exposure, E A-weighted sound pressure (p) squared and integrated over a stated period of time, T Note 1 to entry: The SI unit is Pa^2 s. T $E = \int_{0}^{T} p(t)^2 dt$ | N/A |



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| 10 - 10 | 711 711 711 | EN IEC 62368-1 | Alex Alex |
|---------|--------------------|-----------------|-----------|
| Clause | Requirement – Test | Result – Remark | Verdict |

| Clause | Trequirement – Test | Result – Remark | Verdict |
|----------|--|--|--------------|
| - Color | All the state of t | and the state of t | 1/1/2 |
| 3.3.19.4 | sound exposure level, SEL | | N/A |
| | logarithmic measure of sound exposure relative to | THE THE STEE WITE | all Live of |
| | a reference value, Eo, typically the 1 kHz | The way we may | , |
| | threshold of hearing in humans. | | LET . |
| | N. A. A. C. | THE LIE NITE MITE | are are |
| | Note 1 to entry: SEL is measured as A-weighted levels in dB. | for the the | |
| | The life will with the | I the contract. | 16th J. 15th |
| | $SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$ | the stiff out only wh | 1/1/2 |
| | $SEL = 10 \lg \left(\frac{-}{E_0} \right) dD$ | 24, 25, 2, | |
| | \20' UD | A A A A A | T. C. C. |
| | | THE WALL WILL WALL | 20, |
| | Note 2 to entry: See B.4 of EN 50332-3:2017 for additional | 20, 20, 1 | 1 |
| | information. | at let let let | Chille 1 |
| 3.3.19.5 | digital signal level relative to full scale, dBFS | The the Man Man | N/A |
| | levels reported in dBFS are always r.m.s. Full | the state of the s | 18th 3 |
| | scale level, 0 dBFS, is the level of a dc-free 997- | THE STEEL STEEL WITH ST | Very COL |
| | Hz sine wave whose undithered positive peak | . The say in say | |
| | value is positive digital full scale, leaving the code | a state | (T (1) |
| | corresponding to negative digital full scale unused | of the all miles and | 2 miles |
| | to responding to regular angular rain codes and code | The The To | |
| | Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | The state of |
| | Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine | LITE OUT WALL WAL | 2/15 |
| | wave may exceed 0 dBFS. In particular, square wave signals | 111 111 | |
| A 65 (| may reach +3,01 dBFS. | A A A A A A A A A A A A A A A A A A A | 500 |
| 2 | Modification to Clause 10 | | Р |
| 10.6 | Safeguards against acoustic energy sources | the little | OF P.O |
| | Replace 10.6 of IEC 62368-1 with the following: | | i. The |
| 10.6.1.1 | Introduction | | P |
| 10.0.1.1 | | - THE THE LITER OUT | |
| | Safeguard requirements for protection against | are we are an | 0 |
| | long-term exposure to excessive sound | 1 1 1 1 | 164 |
| | pressurelevels from personal music players | THE ITEM LITE RAIL | 11 11 11 |
| | closely coupled to the ear are specified below. | With The Mr. M. | 100 |
| | Requirements for earphones and headphones | the state of | LEY ! |
| | intended for use with personal music players are | TEN TEN LITE OUT . | are are |
| | also covered. A personal music player is a portable equipment | in the same of | |
| | intended for use by an ordinary person , that: | | 16th 16 |
| | interided for use by an ordinary person , that. | it if the stiff with and | " " In |
| | – is designed to allow the user to listen to audio or | The Mile In In | |
| | audiovisual content / material; and | 1 1 1 1 1 | 4 1 |
| | uses a listening device, such as headphones or | TER LITE WITH MILE | W. |
| | earphones that can be worn in or on or | The Mr. In A. | |
| | around the ears; and | a at at at | 1.48 |
| | has a player that can be body worn (of a size | THE STIP OF STATE STATE | 11/2 21/ |
| | suitable to be carried in a clothing pocket) and is | The The In The | |
| | intended for the user to walk around with while in | a start set | 15 |
| | continuous use (for example, on a street, in a | THE SLIFE WITH SIRLY WI | The same |
| | subway, at an airport, etc.). | The The Tax | |
| | Subway, at all allport, 610.3. | c of the state of | 6 JE |
| | EXAMPLES Portable CD players, MP3 audio players, mobile | Life with with white | 2/L |
| | phones with MP3 type features, PDAs or similar equipment. | 24, 24, 25 | .(_ |
| | of the last of the | at at 1st 1st | LITER |
| | Personal music players shall comply with the | | 211 |



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| | EN IEC 62368-1 | | | |
|----------|---|-----------------------|--|--|
| Clause | Requirement – Test | Result – Remark | Verdict | |
| - Mr. | 1 | the wife while whi | me m | |
| | requirements of either 10.6.2 or 10.6.3. | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | |
| | NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360. | MILITER WALTER WALTER | Muric Maria | |
| | NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible. | stek whitek whitek wh | itek mitek m ek mitek m | |
| | Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video mode only. The requirements do not apply to: – professional equipment; | Whitek whitek whitek | nutek mutek | |
| | NOTE 3Professional equipment is equipment sold through special sales channels. All products sold throughnormal electronics stores are considered not to be professional equipment. | Tet united united uni | TEK JULIEK JULI | |
| | hearing aid equipment and other devices for assistive listening; | white many water | THE THE | |
| | the following type of analogue personal music players: | White White White. | WITT WILL | |
| | long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and cassette player/recorder; | THE MILITER W | est of the | |
| | NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies. | THE WILLS WHILE | white white | |
| | a player while connected to an external amplifier that does not allow the user to walk around while in use. | MULTER ANTIER ANTIER | UNLITEK WALTEK | |
| | For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply. | LIER WHITER WHITER WH | | |
| | The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply. | TEK TEK SLIEK | WILLER WALLER | |
| 10.6.1.2 | Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz | THE THE THE | N/A | |
| | The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand- | Murit Mur Mur | TEK JUNIEK JUNIEK | |



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| Lange And | EN IEC 62368-1 | | | | |
|---|--------------------|-----------|-----------------|-------|---------|
| Clause | Requirement – Test | Mr. M. M. | Result – Remark | alt d | Verdict |

| | drawn to EN 50360 and EN 50566. | 211, 25 | 4 |
|----------|---|---------------------------|-------------|
| 10.6.2 | Classification of devices without the capacity to | estimate sound dose | N/A |
| 10.6.2.1 | General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in | Not such equipment | N/A |
| | effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. | ex unifer whilet whilek | white whi |
| | For classifying the acoustic output L_{Aeq}, τ , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. | MILER MUTER MUTER MUT | EX MILEY |
| | For music where the average sound pressure (long term $L_{Aeq,\tau}$) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements | TEX WATER WATER WHITE | Murit M |
| | may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song. | STEET WITE MULTER AND | TEK MATTER |
| | NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{\text{Aeq},7}$) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound | the survited while while | A WILER O |
| | pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB. | TE WALTER WALTER WALTER W | WITE WALTE |
| 10.6.2.2 | RS1 limits (to be superseded, see 10.6.3.2) | MUTER WALTER WALTER WAL | N/A |
| | RS1 is a class 1 acoustic energy source that does not exceed the following: | LIEK MITEK WHITEK WHITEK | WHIEK W |
| | – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and | ex whitek whitek whitek | unit ex whi |
| | listening device is known by other means such as setting or automatic detection, the L_{Aeq} , τ acoustic output shall be ≤ 85 dB when playing the fixed | WALTER WALTER WALTER WA | LIE WALTER |
| | "programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized | OUTEX MILIER MILIER WILL | WELL A |
| | connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be | LIEX WILLEX WILLES WILLES | W It W |
| | ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. | MULTER WALTER WALTER OF | Uril Muri |
| | The RS1 limits will be updated for all devices as per 10.6.3.2. | WALLEY WHITE WHITE WAS | The Willy |



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| EN IEC 62368-1 | | | | |
|--|---|---|---|--|
| Clause | Requirement – Test | Result – Remark | Verdict | |
| 10.6.2.3 | RS2 limits (to be superseded, see 10.6.3.3) | Anti wat man | N/A | |
| ancie wiek whitek white | RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1. | SUPER WHITE | AND | |
| 10.6.2.4 | RS3 limits RS3 is a class 3 acoustic energy source that | THE TEXT | N/A | |
| 21/2 21 | exceeds RS2 limits. | white white with | ur, | |
| 10.6.3 | Classification of devices (new) | it its | N/A | |
| 10.6.3.1 | General | 2 1/2 21 | N/A | |
| | Previous limits (10.6.2) created abundant false negative and false positive PMP sound level | it alite milet walf | EX MUTER MY | |

warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below. 10.6.3.2 N/A RS1 limits (new) RS1 is a class 1 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, racoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. 10.6.3.3 RS2 limits (new) N/A RS2 is a class 2 acoustic energy source that does not exceed the following: for equipment provided as a package (player)



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| EN IEC 62368-1 | | | |
|--|---|--|--|
| Clause | Requirement – Test | Result – Remark | Verdict |
| WILLER WILL WILLER WILL WILLER WILLER WILLER WILLER WILLER WILLER WILLER WILLER WILLER | with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN50332-1. | Whitek wh | ALTER WALTER JUNE ER WALTER |
| 10.6.4 | Requirements for maximum sound exposure | it, mur mer me | P |
| 10.6.4.1 | Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with | See test report No. WTF25X06163965Y | ALTER MILIER |
| 10.6.4.2 | EN 50332-1 or EN 50332-2 as applicable. Protection of persons | At The state of | P |
| 10.6.4.2 | Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3. | TE WHITE WHITE | t my let my |
| | NOTE 1 Volume control is not considered a safeguard. | WALTER WALTER WALTE | MULT. MUT. |
| | Between RS2 and an ordinary person , the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use. | United Whited Whited Whited | EX WITEX WATER |
| | The elements of the instructional safeguard shall be as follows: | Whitek Whitek Whitek | UNLIER WINLIER |
| | - element 1a: the symbol (2011-01), IEC 60417-6044 (2011-01) - element 2: "High sound pressure" or equivalent wording - element 3: "Hearing damage risk" or equivalent | Nitek Whitek Whitek Whit | iter uniter un |
| | wording – element 4: "Do not listen at high volume levels for long periods." or equivalent wording | WALTER WALTER WALTER | White Shrift |
| | 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10 | 4 4 2 | 160 |



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| 10, | EN IEC 62368-1 | | | |
|----------------------------------|---|-------------------------|--|--|
| Clause | Requirement – Test | Result – Remark | Verdict | |
| ari . | THE THE TENT | ALTER WITH MACK | The The | |
| | of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off. | whitek whitek whitek wh | untiek untiek | |
| | The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time. | EX WALTER WALTER WALTER | WALTER WALTER | |
| | NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed. NOTE 3 The 20 h listening time is the accumulative listening | TEX WHITEK WHITEK WAY | iek va iter va | |
| | time, independent of how often and how long the personal music player has been switched off. | A MULTER MULTER MULTER | WALT WAL | |
| MILIER | A skilled person shall not be unintentionally exposed to RS3. | CLIER WALTER WALTER | WILLER MULTER | |
| 10.6.5 | Requirements for dose-based systems | | N/A | |
| | General requirements Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause. The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with apply to understand explanation to the user of the | Not such equipment | N/A EX TOTAL TEXT SUBJECT T | |
| NITEK WNITE IEK WNITE L EK | easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc. | Mirek Whitek Whitek W | STEK MITTER | |
| 10.6.5.2 | Dose-based warning and requirements | ALIER WALTER WALTE | N/A | |
| | When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the | et et et | LIEK NLIEK | |



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| Requirement – Test | Result – Remark | Verdict |
|--|---|---|
| | | |
| | all the the | 7/1, 72, |
| acknowledgement. In case the user does not | 1 1 A | et let |
| | THE LITER OLIV | with with |
| decrease to compliance with diase from | are me in . | |
| The warning shall at least clearly indicate that | at at let | TEX JEE . |
| listening above 100 % CSD leads to the risk of | life, while when my | 7 20 20 W |
| hearing damage or loss. | . 70, 7, . | |
| Exposure-based requirements | et let let li | N/A |
| With only dose-based requirements, cause and | with the the | 20 20 |
| effect could be far separated in time, defying the | a at at | 16 16 |
| purpose of educating users about safe listening | TEN WITH WITH | Mr. Mer |
| | 21/2 211 24. | |
| | A A A | TER LIE |
| term sound level a user can listen at. | WILL WITH WILL A | in in. |
| The exposure-based limiter (FL) shall | 2 | A St |
| automatically reduce the sound level not to exceed | THE JET JET IN | J. 11 21 201 |
| | we me me | 20 |
| | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | t 1 5 |
| The EL settling time (time from starting level | in the write will | The the |
| reduction to reaching target output) shall be 10 s | 14, 14, 14 | |
| or faster. | at at the | LIE RLIE |
| Test of El functionality is conducted according to | white with white | 14. |
| | | at lit |
| | -Et Calife | Str. Chr. |
| | 2 20 20 | |
| shall be 100 dB or lower. For equipment provided | ** × | Et SET |
| with a standardized connector, the unweighted | the other with whi | The Mr. |
| | 20, 20 | t .e |
| | - THE THE LITTER | alite anti |
| than -10 dBFS for a digital interface. | West wife and | 211. |
| NOTE In case the source is known not to be music (or test | a de est | LET LET |
| signal), the EL may be disabled. | NITE OF THE WALL | ing, sugar |
| | s, earphones, etc.) | Р |
| Corded listening devices with analogue input | LIEK SLIER MLIE WY | N/A |
| With 94 dB LAeqacoustic pressure output of the | . W. W | |
| | at let let it | |
| | MULL MUT. MUT. | 20, |
| | L . t | |
| | TEX LIFE SITE | Will Will |
| | The Mr. M. | 2, 1 |
| when playing the fixed "programme simulation | at the test | LET LET |
| noise" as described in EN 50332-1 shall be ≥ 75 | alife while april w | in the |
| mV. | 11. 24. 2. | e de |
| NOTE The values of 04 dB and 75 mV comment with 65 dB | at the the | TET IN THE SIL |
| and 27 mV or 100 dB and 150 mV. | in with the the | 20 20 |
| Corded listening devices with digital input | t at at all | N/A |
| With any playing device playing the fixed | WILL WALL WALL | 21/2 21/2 |
| | | |
| "programme simulation noise" described in EN 50332-1, and with the volume and sound settings | 70. | et et |
| | acknowledge, the output level shall automatically decrease to compliance with class RS1. The warning shall at least clearly indicate that listening above 100 % CSD leads to the risk of hearing damage or loss. Exposure-based requirements With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface. NOTE In case the source is known not to be music (or test signal), the EL may be disabled. Requirements for listening devices (headphones of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV. NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV. Corded listening devices with digital input | acknowledge, the output level shall automatically decrease to compliance with class RS1. The warning shall at least clearly indicate that listening above 100 % CSD leads to the risk of hearing damage or loss. Exposure-based requirements With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface. NOTE In case the source is known not to be music (or test signal), the EL may be disabled. Requirements for listening devices (headphones, earphones, etc.) Corded listening devices with analogue input With 94 dB LAeqacoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV. NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV. |



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| EN IEC 62368-1 | | | | |
|----------------|--|---|--|--|
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| antifek anti | level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{Aeq,\tau}$ acoustic output of the listening device shall be ≤ 100 dB with an input signal of - 10 dBFS. | antitek untitek untitek un | itek mitek Mitek | |
| 10.6.6.3 PE | Cordless listening devices In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, τacoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS. | Est whitek | MA WALLEY | |
| 10.6.6.4 | Measurement method Measurements shall be made in accordance with EN 50332-2 as applicable. | See test report No. WTF25X06163965Y | EF WEEK | |
| 3 | Modification to the whole document | | N/A | |



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| 20 | · · · · · · · · · · · · · · · · · · · | | |
|----------------|---------------------------------------|-----------------|-----------|
| EN IEC 62368-1 | | | 24/2 21/2 |
| Clause | Requirement – Test | Result – Remark | Verdict |

| | list: | | oddini y noto | 3 117 1170 1010 | a a a a a a a a a a a a a a a a a a a | THE GOOD GIVING | to the following | N/A |
|--------|----------|-----------|--|-------------------------|---------------------------------------|-----------------|--|---------|
| | 0.2. | 1 | Note 1 and 2 | 1 | Note 4 and 5 | 3.3.8.1 | Note 2 | 114 |
| | 3.3. | 8.3 | Note 1 | 4.1.15 | Note | 4.7.3 | Note 1 and 2 | 1 1 |
| | 5.2. | 2.2 | Note | 5.4.2.3.2.2 Table 12 | Note c | 5.4.2.3.2.4 | Note 1 and 3 | EX WIN |
| | 5.4. | 2.3.2.4 | Note 2 | 5.4.2.5 | Note 2 | 5.4.5.1 | Note |)- JF |
| | Tab | le 13 | | | | | | 4/1/2 |
| | 5.4. | 10.2.1 | Note | 5.4.10.2.2 | Note | 5.4.10.2.3 | Note | WILLER |
| | 5.5. | 2.1 | Note | 5.5.6 | Note | 5.6.4.2.1 | Note 2 and 3 and 4 | LIEK W |
| | 5.6.9 | 8 | Note 2 | 5.7.6 | Note | 5.7.7.1 | Note 1 and Note 2 | isk and |
| | 8.5.4 | 4.2.3 | Note | 10.2.1 Table 39 | Note 3 and 4 and 5 | 10.5.3 | Note 2 | MALIE |
| | 10.8 | 3.1 | Note 3 | F.3.3.6 | Note 3 | Y.4.1 | Note | TEK |
| | Y.4. | 5 | Note | | | | | * |
| الالتا | 11 | 9. | | | AT AV | | 11 12 14 14 14 14 14 14 14 14 14 14 14 14 14 | The Th |
| | Modifie | cation | to Clause 1 | | | | | N/A |
| | NOTE Za | 1 The use | ving note: e of certain substa ent is restricted w | | | | | N/A |
| | 2011/65/ | EU. | 1000 | | | A Y | | 4000 |



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| 1101010110011 | 10.1. 11.11 202001101011 | r ago ir or oo | | 267 | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ |
|---------------|--------------------------|-------------------|-----------------|------|---------------------------------------|
| " " " | | EN IEC 62368-1 | | | . m. |
| Clause | Requirement – Test | Tree Mary All Man | Result – Remark | at s | Verdict |

| 4.Z1 | Add the following new subclause after 4.9: | Not directly connected to the | N/A |
|--|--|---------------------------------------|---|
| WHITE WHITE WHI | To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c.mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet. | mains | WALTER WALTER |
| 6 | Modification to 5.4.2.3.2.4 | | N/A |
| 5.4.2.3.2.4 | Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009. | No connection to external circuit. | N/A |
| 7 | Modification to 10.2.1 | | N/A |
| 10.2.1 | Add the following to c) and d) in table 39:For additional requirements, see 10.5.1. | No such radiation from the equipment. | N/A |
| 8 | Modification to 10.5.1 | | N/A |



N/A

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| EN IEC 62368-1 | | | |
|--------------------|---|--|-----------------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| 10.5.1 | Add the following after the first paragraph: | Multiple Anti- | N/A |
| 01.0.1. 01.0.1. | For RS 1 compliance is checked by measurement under the following conditions: | MALIER MALIER MALIER. | antifek antifek |
| | In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. | TEX WHITEX WHITEX WHITEX WHITEX | LIER WAITE WAS |
| | NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. | UNLIER WALTER WALTER | MITTER WALTER |
| | The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus. | LIEX WHITEK WHITEK WH | TEX IN LIE W |
| | Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. | Whitek whitek whitek | Whitek Whitek |
| | For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level. | The state of the s | EK MUTEK MUT |
| | NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996. | THE THE | - LIFE SLIFE |
| 9 | Modification to G.7.1 | | N/A |
| G.7.1 | Add the following note: | A A A | N/A |

NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in AnnexZD.

Modification to Bibliography

10



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| United Maria | My hay all a | EN IEC 62368-1 | TEX WITE MUTER IN | Vrie M | 211 |
|--------------|--------------------|----------------|-------------------|--------|---------|
| Clause | Requirement – Test | in and in an | Result – Remark | et s | Verdict |

| all. | The state of the s | N/A | | | |
|--------|--|--------------|--|--|--|
| | Add the following notes for the standards indicated: | | | | |
| | IEC 60130-9 NOTE Harmonized as EN 60130-9. | W. C. | | | |
| | IEC 60269-2 NOTE Harmonized as HD 60269-2. | | | | |
| | IEC 60309-1 NOTE Harmonized as EN 60309-1. | TEN | | | |
| | IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. | 1 2 | | | |
| | IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4. | | | | |
| | IEC 60664-5 NOTE Harmonized as EN 60664-5. | OF IN | | | |
| | IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). | -72, | | | |
| | IEC 61508-1 NOTE Harmonized as EN 61508-1. | 1- 6 | | | |
| | IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1. | The state of | | | |
| | IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4. | 20 | | | |
| | IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6. | 15 | | | |
| | IEC 61643-1 NOTE Harmonized as EN 61643-1. | Mrs. | | | |
| | IEC 61643-21 NOTE Harmonized as EN 61643-21. | | | | |
| | IEC 61643-311 NOTE Harmonized as EN 61643-311. | 16 | | | |
| | IEC 61643-321 NOTE Harmonized as EN 61643-321. | 15 11 | | | |
| | IEC 61643-331 NOTE Harmonized as EN 61643-331. | 4 | | | |
| | | | | | |
| 1 | ADDITION OF ANNEXES | N/A | | | |
| ZB | ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN) | N/A | | | |
| 4.1.15 | Denmark, Finland, Norway and Sweden Not directly connected to the | N/A | | | |
| | To the end of the subclause the following is mains | 100 | | | |
| | added: | 100 | | | |
| | Class I pluggable equipment type A intended for | 1 | | | |
| | connection to other equipment or anetwork shall, if | 100 | | | |
| | safety relies on connection to reliable earthing or if | -24. | | | |
| | surge suppressors are connected between the | d- 2 | | | |
| | network terminals and accessible parts, have a | " The | | | |
| | marking stating that the equipment shall be | | | | |
| | connected to an earthed mains socket-outlet. | 164 | | | |
| | The manifold that is the conditional according to the H | ME | | | |
| | The marking text in the applicable countries shall be as follows: | | | | |
| | be as follows. | JET | | | |
| | In Denmark: | 1, 21 | | | |
| | "Apparatetsstikpropskaltilsluttesenstikkontakt med | 4 | | | |
| | jordsom giver forbindelsetilstikproppensjord." | 100 | | | |
| | In Finland : "Laite on | 70. | | | |
| | liitettäväsuojakoskettimillavarustettuunpistorasiaan | + ,6 | | | |
| | of " we will all the state that the state with | WELL. | | | |
| | In Norway: | 700 | | | |
| | | | | | |
| | "Apparatetmåtilkoplesjordetstikkontakt" | 46 | | | |
| | "Apparatetmåtilkoplesjordetstikkontakt" In Sweden : "Apparatenskallanslutas till | JALIER. | | | |



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| 20, | EN IEC 62368-1 | LIL WILL WALL | 24, 24, |
|----------------|---|----------------------------|--------------------------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| 4.7.3 | United Kingdom | MULLINGE MAY W | N/A |
| | To the end of the subclause the following is added: | MALIER MALTER MALTER WAY | TEX MALTE |
| | The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex | et jet stek mit mit | uni ek uni |
| 5.2.2.2 | Denmark | No high touch current | N/A |
| | After the 2nd paragraph add the following: | measured. | LIE MALTE |
| unliek whi | A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c. | MITER WILLER WHITER WHITE | it writer. |
| 5.4.11.1 | Finland and Sweden | No such external circuits. | N/A |
| and Annex G | To the end of the subclause the following is added: | TER WRITE WRITE WALL | The sale |
| | For separation of the telecommunication network from earth the following is applicable: | Multer white white or | in and |
| | If this insulation is solid, including insulation forming part of a component, it shall at least consist of either | White white white whi | t Tex |
| | two layers of thin sheet material, each of which shall pass the electric strength test below, or | The finite men | ALL A |
| | one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. | until until water | ماري ماري الماري ماري |
| | If this insulation forms part of a semiconductor | white with mit in | et set |
| | component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound | MILIER WALTER WALTER WAL | MUL |
| | completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in | LIER WALTER WALTER WALTER | WILL M |
| | accordance with the compliance clause below and in addition | antiek matiek matiek | incies vinci |
| | passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1.6 (the electric strength test of 5.4.9 shall be | WALTER WALTER WALTER | TEX WALTER |

by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and • is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV. It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.



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| 20. | EN IEC 62368-1 | in the and | 20, 4, |
|-----------|---|--------------------------------|----------------|
| Clause | Requirement – Test | Result – Remark | Verdict |
| 21/2 | White the state of | it with the | The Me |
| | A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions: | MUTER MUTER WITER | MITEX WALTEX |
| | the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11; | LITER WHITER WHITER WHITE | t while whi |
| | the additional testing shall be performed on all the test specimens as described in EN 60384- 14; | White white white | oner untrek |
| LIEK WALT | the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14. | TEX WILE WILES MILE | ek milek mi |
| 5.5.2.1 | Norway | a the set set | N/A |
| | After the 3rd paragraph the following is added: | Marile White White | me me |
| | Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V). | Whitek Whitek Whitek | INLIEK WINLIEK |
| 5.5.6 | Finland, Norway and Sweden | No such resistors. | N/A |
| | To the end of the subclause the following is added: | a luni un | t liet of |
| | Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2. | TE WALTER WALTER WALTER | waite waite |
| 5.6.1 | Denmark | No such equipment. | N/A |
| | Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuseswith higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: | unite until unit whitek united | WALLEY WALL |
| MALTER | In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse. | CIEN SCIENT STEET | NALTER WALTER |
| 5.6.4.2.1 | Ireland and United Kingdom | 10, 10, 10 | N/A |
| | After the indent for pluggable equipment type A , the following is added: – the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug. | nitek whitek whitek whi | it unit un |



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| J. Mile | Mr. Mer. Alle | EN IEC 62368-1 | TIER WITER WHITER | Tie Mure Meri |
|---------|--------------------|----------------|-------------------|---------------|
| Clause | Requirement – Test | it, Mur, M. M. | Result – Remark | Verdict |

| 5.6.4.2.1 | France | 70, 20, | N/A |
|-----------|---|---------------------------|---|
| MUTTE AND | After the indent for pluggable equipment type A , the following is added: — in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A. | uniter whiter whiter whi | THE MUTTER W |
| 5.6.5.1 | To the second paragraph the following is added: | at let let let | N/A |
| WALTER V | The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm²to 1,5 mm²in cross-sectional area. | COUNTY WILL WHITEK | unite vinite |
| 5.6.8 | Norway | the state of | N/A |
| ine white | To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as class I equipment . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted. | TEX WITE WITE WITE WITE | AND THE WA |
| 5.7.6 | Denmark | 741. 12. 1. | N/A |
| | To the end of the subclause the following is added: The installation instruction shall be affixed to the equipment if the protective conductor current | Whitek whitek whitek w | PLIE WHILE |
| at di | exceeds the limits of 3,5 mA a.c. or 10 mA d.c. | | - cet . |
| 5.7.6.2 | Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA. | whitek whitek whitek | N/A |
| 5.7.7.1 | Norway and Sweden | Not such system. | N/A |
| | To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. | THE WILLIER WILLER WILLER | AND EX WALLEY ONLY EX WALLEY ONLY EX WALLEY ONLY EX WALLEY ONLY EX WALLEY |
| | It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. | NITER WHITE WHITE WHITE | And lest one |
| | The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in: | WALTER WALTER WALTER | MATER WALT |



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| 20, | EN IEC 62368-1 | | | |
|---------------------------------|---|--|--|--|
| Clause | Requirement – Test | Result – Remark | Verdict | |
| WALTER WALTER | "Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing — and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)" NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric | antifek whitek w | MILER WHITEK JUNE WHITEK WHITE WHI | |
| | strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will also be accepted in Norway): "Apparatersom er koplettilbeskyttelsesjord via nettpluggog/eller via annetjordtilkoplet utstyr – og er tilkoplet et koaksialbasertkabel-TV nett, kanforårsakebrannfare. For å unngådetteskal det vedtilkoplingavapparatertilkabel-TV nett installeresengalvanisk isolator mellomapparatetogkabel-TV nettet." | TEX WILLER WILL WILLER WILLER WILLER WILLER WILLER WILLER WILLER WILLER WILLER | EX UNITEX UNITEX UNITEX OF | |
| ek untie whitek untiek un | Translation to Swedish: "Apparatersomärkopplad till skyddsjord via jordatvägguttagoch/eller via annanutrustningochsamtidigtärkopplad till kabel-TV nätkanivissa fall medfőra risk főr brand. Főrattundvikadettaskall vid anslutningavapparaten till kabel-TV nätgalvanisk isolator finnasmellanapparatenochkabel-TV nätet." | TE WALTER WALTER WALTER | WALTER WALTER | |
| 8.5.4.2.3 | United Kingdom Add the following after the 2 nd dash bullet in 3 rd paragraph: An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury. | No external circuits. | et I N/A | |



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| United Maria | My hay all a | EN IEC 62368-1 | TEX WITE MUTER IN | Vrie M | 211 |
|--------------|--------------------|----------------|-------------------|--------|---------|
| Clause | Requirement – Test | in and in an | Result – Remark | et s | Verdict |

| B.3.1 and | Ireland and United Kingdom | Not directly connected to the | N/A |
|----------------|---|---|-------------------------------|
| 3.4 | The following is applicable: | mains | Mr |
| EX MUTEX MUTEX | To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met | tiek whitek | ALTEK WA EK WALT WALTEK |
| G.4.2 | Denmark | Not directly connected to the | N/A |
| | To the end of the subclause the following is added: | mains | LIEK WA |
| | Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. | A MULTER MULTER MULTER MULT | ek Walifi |
| | CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended | INTER MITER WHITER | MALTER |
| | to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. | MULTER WHITER | ALTEK W |
| | If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. | SER WHITE WHITE WHITE WHITE WHITE | ountrest v |
| | Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a. | TEX WITEX WITEX WITEX | LIEK VIV |
| | Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. | White while while while | WILLER |
| | Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a | NIFE WHITE WHITE WATER | JEK W |
| | Justification: | in the the the | 4 4 |
| | Heavy Current Regulations, Section 6c | L at at the of | 116 |



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| Life Marie | Mir hur all all | EN IEC 62368-1 | The Charles |
|------------|--------------------|-----------------|-------------|
| Clause | Requirement – Test | Result – Remark | Verdict |

| G.4.2 | United Kingdom | Not directly connected to the | N/A |
|----------------------------|---|--|----------------------------|
| | To the end of the subclause the following is added: | mains white white white | whit. |
| | The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is | LITER WALTER WALTER WALTER WAS | Mar W |
| WALTER | replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply. | MALIER MALIER WALTER MALIE | WALTE |
| G.7.1 | United Kingdom | at let let liet | N/A |
| | To the first paragraph the following is added: | WILL MULL MULL MULL | 30 |
| | Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations. | TEX WHITEX WHITEX WHITEX WHITEX WHITEX WHITEX WHITEX | TEX WALTER |
| ALTEK WA | NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug. | THE MALITER WALTER OF | ALTER V |
| G.7.1 | Ireland | THE LIFE OF | N/A |
| Whitek Whitek Whitek | To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard | Whitek whitek whitek whitek whitek | entitet Valitet Stet |
| G.7.2 | Ireland and United Kingdom | in the man in | N/A |
| | To the first paragraph the following is added: | of the text the state | E JULI |
| | A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A. | WILL WILL WHILE | MUTER |
| ZC 👉 | ANNEX ZC, NATIONAL DEVIATIONS (EN) | J. J. J. | N/A |



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| AV | | | |
|--------|--------------------|-----------------|---------|
| 16 216 | | EN IEC 62368-1 | |
| Clause | Requirement – Test | Result – Remark | Verdict |

| 10.5.2 | Germany | No CRT within the equipment. | N/A |
|---------|---|------------------------------|--------|
| | The following requirement applies: | SLIER WILLER WHILE WHILE | |
| | For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. | STER WITER WHITER WHITER | |
| | Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. | Whitek whitek whitek whitek | |
| TEK WAT | NOTE Contact address: Physikalisch-TechnischeBundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de | Tex Milex Milex Milex M | TEX WY |
| ZD | IEC and CENELEC CODE DESIGNATIONS FOR | FLEXIBLE CORDS (EN) | N/A |





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| ans. | And the time of the | EN IEC 62368-1 | Vi. Mar |
|--------|---------------------|-----------------|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |

| Type of flexible cord | Code de | esignations |
|--|-----------------|--------------------------|
| | IEC | CENELEC |
| PVC insulated cords | | |
| Flat twin tinsel cord | 60227 IEC 41 | H03VH-Y |
| Light polyvinyl chloride sheathed flexible cord | 60227 IEC 52 | H03VV-F H03VVH2-F |
| Ordinary polyvinyl chloride sheathed flexible cord | 60227 IEC 53 | H05VV-F H05VVH2-F |
| Rubber insulated cords | | |
| Braided cord | 60245 IEC 51 | H03RT-F |
| Ordinary tough rubber sheathed flexible cord | 60245 IEC 53 | H05RR-F |
| Ordinary polychloroprene sheathed flexible cord | 60245 IEC 57 | H05RN-F |
| Heavy polychloroprene sheathed flexible cord | 60245 IEC 66 | H07RN-F |
| Cords having high flexibility | 5 65 | <u> </u> |
| Rubber insulated and sheathed cord | 60245 IEC 86 | H03RR-H |
| Rubber insulated, crosslinked PVC sheathed cord | 60245 IEC 87 | H03 RV4-H |
| Crosslinked PVC insulated and sheathed cord | 60245 IEC 88 | H03V4V4-H |
| Cords insulated and sheathed with halogen- free thermoplastic compounds | | |
| Light halogen-free thermoplastic insulated and sheathed flexible cords | | H03Z1Z1-F H03Z1Z1H2-F |
| Ordinary halogen-free thermoplastic insulated and sheathed flexible cords | | H05Z1Z1-F H05Z1Z1H2-F |



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| U. 21/2 | 1111 1211 1211 | EN IEC 62368-1 | ne m |
|---------|--------------------|-----------------|---------|
| Clause | Requirement – Test | Result – Remark | Verdict |

| 5.2 | TABLE: Classification | ABLE: Classification of electrical energy sources | | | | | P |
|--------------------------------|-------------------------|---|--------------|------------|--------------------|----------------------------------|--------|
| Supply | Location (e.g. | Test conditions | | Parame | ters | | ES |
| Voltage | designation) | | U (V) | I (mA) | Type ¹⁾ | Additional Info ²⁾ | Class |
| 5.0VDC | | Normal | <60Vdc | e.t | SS | DC | ES1 |
| designed to be supplied by USB | Abnormal | antife and | The state of | 10, 1, | 70, | 20. | |
| | type-C port | Single fault – SC/OC | STEE ST | et intek | LIEK- WY | EK WALTER | MALTER |
| 4.2VDC | The EUT is | Normal | <60Vdc | T. | SS | DC | ES1 |
| designed to be supplied by | Abnormal | TER TITES | White Muri | 470 | 21/2 - 21 | 701 | |
| | Internal Li-ion battery | Single fault – SC/OC | - CIER | LIEK WLIEK | NALTEX. | UNLIEK WINLE | EK WIT |

Supplementary information:

- 1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc. 2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.
- 3) Test Conditions:

Normal –Full load and no load. Abnormal - Overload output SC= short circuit; OC= open circuit

| 5.4.1.8 TABLE: Working voltage measurement | | | | N/A | |
|--|----------|--------------------|---------------------|-------------------|------------------|
| Location | | RMS voltage (V) | Peak voltage (V) | Frequency (Hz) | Comments |
| 2/1/2 | 14 24 2 | - 74 A | et aret ar | EF JOHN W | The Mer Mer Mer. |
| .4. | 74 70 AV | 100 | 11. 14. | | , L ,+ |

Supplementary information:

| 5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics | | | | | |
|---|--------------------------------|------------------|------|---------|--|
| Method: ISO 306 / B50 | | | | | |
| Object/ Part No./Material Manufacturer/trademark Thickness (mm) T s | | | | | |
| -41. 21. 2 | - Let a light on liter and the | " NUTT - MUTT AN | - m- | -211, - | |
| Supplementary information: | | | | | |
| 11. 12. 2 | et stet stree with | Wry Wer war | an . | 20. 0. | |

| 5.4.1.10.3 | .3 TABLE: Ball pressure test of thermoplastics | | | | | N/A | |
|---|--|------------------------|-----------|------|-----------------------|---------------|--------------------|
| Allowed impression diameter (mm) ≤ 2 mm | | | | | | _ | |
| Object/Part | No./Material | Manufacturer/trademark | Thickness | (mm) | Test temperature (°C) | lmpr diame | ession ter (mm) |



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| EN IEC 62368-1 | | | | | | |
|----------------|------------------------------|-----------|------------------|---------|--|--|
| Clause | Requirement – Test | Result | - Remark | Verdict | | |
| ale . | The The The Table | LET JET J | Children William | The The | | |
| | TEK TEK TEK MITER MITER Y | n n n | - L | A - 11 | | |
| Suppleme | entary information: | | | | | |
| it. | THE THE STIFF STIFF MIST WAS | . In In | 4 | at alt | | |

| 5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance | | | | | | | | N/A |
|--|------|-----|----|-----------------|--------------|--------|------------|------|
| Clearance (cl) and creepage U_p U_{rms} $Freq^{1)}$ Required cl $E.S.^{2)}$ Required distance (cr) at/of/between: (V) (V) (kHz) cl (mm) (mm) (V) (rms) | | | | | | | cr (mm) | |
| - write while wall wall | 27/2 | 20 | , | - + | Ali <u>t</u> | JEK ~ | EK 1717E | WITE |
| Supplementary information: | • | | | | | | | |
| 1) Only for frequency above 30 | kHz | 10, | 24 | et . | Ell S | et lie | CLIE . | 2) |

Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)

| 5.4.4.2 | TABLE: Minimum | distance through insul | lation | wire wire. | N/A |
|-------------------------|-------------------|------------------------|-------------|-------------------|-------------------|
| Distance th (DTI) at/of | rough insulation | Peak voltage (V) | Insulation* | Required DTI (mm) | Measured DTI (mm) |
| - / | TER STER STE | MILE WILL WAL | m m | L - X | at - at |
| Supplemen | tary information: | | | | |
| *See also s | ub-clause 5.4.4.9 | 10 Tay 12 | 11. 10. 0. | . / c.t | Et Et S |
| 10 | | | | | 10 10 |

| 5.4.4.9 TABLE: Solid in | iodiation at | frequencies | - 30 KI IZ | | A | 100 | V/A |
|----------------------------|--------------|--------------------|-----------------------|------------------|------------|------------------------|-------|
| Insulation material | E P | Frequency (kHz) | K _R | Thickness d (mm) | Insulation | V _{PW} | (Vpk) |
| - with whit whit w | - 1/4 | | # 16t | - Et 18 | - CLIER OF | 5E' | NIT |
| Supplementary information: | | | | | | | |

| 5.4.9 TABLE: Electric | strength tests | at at at | TEX LIEX ALT | N/A |
|---|----------------|--|------------------|-----------------------|
| Test voltage applied between: | | Voltage shape (Surge, Impulse, AC, DC, etc.) | Test voltage (V) | Breakdown Yes / No |
| Functional: | TER WALLE WALL | 211. 211. 21. | 1 1 2+ | LEF LEF |
| -nur mr. m. | L St. Set | - JEK STER MIT | - with while h | Vr. 170 1 |
| Basic/supplementary: | WILLE WAL | 20 20 20 Z | at at a | CENT STEP ST |
| The Me Me And | At All the | TIEK NITER WITE | while mury my | 2/15 2/11 |
| Reinforced: | Will Mr. A | | at at a | F STEP STE |
| - 1/11 1/11 1/11 | et stet si | ER OLITER WITE W | The Maria Maria | 21/2 - 21/2 |
| Routine Tests: | in Mr. M. | | et let let | ALTER OLITER |
| - 4, 4, | et let site | - nite white whi | - me me. | ig. 20 |
| Supplementary information: | | | | |



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| EN IEC 62368-1 | | | | | |
|----------------|--------------------|-----------------|---------|--|--|
| Clause | Requirement – Test | Result – Remark | Verdict | | |

| 5.5.2.2 | TABLE: | Stored discharge of | on capacitors | | | N/A |
|----------|------------|---------------------|----------------------------------|--------------------|------------------------------|------------|
| Location | | Supply voltage (V) | Operating and fault condition 1) | Switch position | Measured voltage (Vpk) | ES Class |
| 10, - | 14. 1 | 1 The 18 | Normal | THE WALLE OF | hri Har. | mr -m |
| WALTEK - | INLIEK VIN | TEL WALLE WALL | Single fault: SC/ OC | trek si | TEX TEX | LIEK -LIEK |

Supplementary information:

X-capacitors installed for testing are:[] bleeding resistor rating:
[] ICX: 1) Normal operating condition (e.g., normal operation, or open fuse), SC= short circuit, OC= open circuit

| 5.6.6 TABLE: Resistance of | protective condu | ictors and terminati | ons | N/A |
|----------------------------|--|----------------------|---------------------|----------------|
| Location | Test current (A) | Duration (min) | Voltage drop (V) | Resistance (Ω) |
| The me in m | . I . | t get get | NITER STILL | Til Attr. D |
| Supplementary information: | | | | |
| ing the last of the | The state of the s | 10 | The Wal | in mr. m |

| 5.7.4 | TABLE: Unearthed access | ible parts | | 110 | | N/A | |
|-----------|---------------------------|-------------|---|--|---------------|----------|--|
| Location | Operating and fault | Supply | Parameters | | | ES class | |
| | conditions | Voltage (V) | Voltage (V _{rms} or V _{pk}) | Current (A _{rms} or A _{pk}) | Freq. (Hz) | | |
| - 56th 55 | Normal | m - m | - A | . J . | | July . | |
| | Abnormal | TEX - LIFET | mit - mit | wei - we | m. | n 2 | |
| | Single fault: SC/OC | 10. 70. | - + | A A | A COL | JE 101 | |
| Supplemen | ntary information: | 1 | A Commission A System | | | | |
| SC= short | circuit; OC= open circuit | . 14 1 | | A 14 | all a | EL JE | |

| 5.7.5 | TABLE: Earthed accessible conductive part | | | | N/A |
|-------------|---|--|---------------------------------|---------------------|-------|
| Supply volt | age (V) | - MITE WILL WALL | - write write man was any an an | | |
| Phase(s) | | | | | |
| Power Dist | ribution System | [] TN [] TT [] IT | in my | | |
| Location | | Fault Condition No in IEC 60990 clause 6.2.2 | Touch current (mA) | Comme | nt |
| 5- ZEF | TER STEE WITE OF | r. mm. m | - A | - J+ - J | - 164 |
| Supplemen | ntary Information: | | | | |
| A. | THE THE STEE STEE | The Mr. M. | In a | + 4 | , est |



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| The Maria | Mrs. Mrs. All. | EN IEC 62368-1 | TER OLIER MALIER | Write M | 70. |
|-----------|--------------------|-----------------------|------------------|---------|---------|
| Clause | Requirement – Test | Arrica Mrs. Mrs. Mrs. | Result – Remark | all d | Verdict |

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| Location | 0 1 | BLE: Backfeed safeguard in battery backed up supplies Supply Operating and fault Time (s) Open-circuit Touch | | | | | | | | | | | |
|----------------------------|-----------|---|-------------------|--------------------------|-------------------|----------|--|--|--|--|--|--|--|
| | | Supply Operating and fault condition | | Open-circuit voltage (V) | Touch current (A) | ES Class | | | | | | | |
| the write of | Ur, Mur N | 4, - 4, | 76 * 5 | CENT TO BE | LIER - NLIE | in - The | | | | | | | |
| Supplementary information: | | | | | | | | | | | | | |

| 6.2.2 | TABLE: Power source | e circuit classif | ications | | | P |
|--|------------------------------------|-------------------------|-----------|------------------------------------|----------|----------|
| Location Operating and fault condition | | Voltage (V) Current (A) | | Max. Power ¹⁾ (W) | Time (S) | PS class |
| For charging | base: | LITER WALL | mer me | 24. | in a | jt, |
| Battery | Output pin + to - | 3.14 | 2.5 | 7.87 | 3S | PS1 |
| Battery boa | rd Signal fault (U1 Pin 1-3 SC) | matte 0*n-tre | 0* | 0* | 3S | PS1 |
| For earbuds: | | et et | LIEF WITE | WILL WILL | mr m | 20 |
| Battery | Output pin + to - | 2.38 | 0.7 | 1.67 | 3S | PS1 |

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit1) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.* Unit shutdown immediately, recoverable, no hazard.

| 6.2.3.1 | TABLE: Determination of Arcing PIS | | | | | | | | | | |
|------------|------------------------------------|--------------------------------------|----------------------------|------------------|-------------------------|--|--|--|--|--|--|
| Location | | Open circuit voltage after 3 s (Vpk) | Measured r.m.s current (A) | Calculated value | Arcing PIS? Yes / No | | | | | | |
| -21/25 7 | in m. m. | - A | TER LIFER OUT | MITE - WALL | mrm. | | | | | | |
| Supplement | tary information: | | | | | | | | | | |
| We was | 20, 20, | .4 .4 | the Later Later | الدرياني المانية | in the con | | | | | | |

| 6.2.3.2 | TABLE: Determination of resistive PIS | | | | | | | | | | |
|----------|---------------------------------------|-------------------------------|---------------------|----------------------------|--|--|--|--|--|--|--|
| Location | | Operating and fault condition | Dissipate power (W) | Resistive PIS? Yes / No | | | | | | | |
| 271 | 20 4 | it let the nite in | Will Att Mr. | 20, -20, | | | | | | | |

Supplementary information:

All circuits are considered as resistive PIS; A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter. If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.

A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, or (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.



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| Lang Maria | EN IEC 62368-1 use Requirement – Test Result – Remark Verdict | | rite Mr. Maria | |
|------------|--|---------------|-----------------|---------|
| Clause | Requirement – Test | Net Mer M. M. | Result – Remark | Verdict |

| osion method Longest axis of Particle found glass particle beyond 1 m Ye | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| (mm) / No | | | | | | | | | |
| munity and many and and any | | | | | | | | | |
| Supplementary information: | | | | | | | | | |
| \$ | | | | | | | | | |

| 9.6 | TABL | E: Temper | ature mea | surement | s for wirel | ess power | transmitte | ers | N/A | |
|--------------|----------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|-------------------------------|--|
| Supply volta | age (V). | | | | | L at | et . | 18th J | | |
| Max. transn | nit powe | er of transn | nitter (W) | نی | TENNITE | Whi. | ner in | 711 | _ | |
| | | | | | | | | | eceiver and at nce of 5 mm | |
| Foreign ob | jects | Object (°C) | Ambient (°C) | |
| | SEX . | UE NI | ST. T. | W. C. | 10 10. | 700 | -, | - | Et JET | |
| Supplement | ary info | rmation: | | | | | | | | |

| 5.4.1.4, TABLE: Temperature measure 9.3, B.1.5, B.2.6 | ments | MLITER MALI | June 14 | WHITEK WAS | EK P TE |
|--|------------------------|-------------|-------------------------------|-------------|---------|
| Supply voltage (V): | Condition 1: (5.0VDC): | UTEK NITER | · Writer | LIEK WILLEK | _ |
| Ambient temperature during test T_{amb} (°C): | See below | 2 | | of the | _ |
| Maximum measured temperature <i>T</i> of part/at: | | | Allowed T _{max} (°C) | | |
| DC input terminal (Charging base) | 27.5 | WILL M | er alve | 11/2 - 11/2 | Ref. |
| L3 body (Charging base) | 28.5 | .JF . | yt y eit | LIEK- NITE | 105 |
| PCB near U5 (Charging base) | 28.7 | aris - ar | 115. 1 | -20 | 105 |
| PCB near U7 (Charging base) | 30.4 | .etet | Car. | TEN TOTAL | 105 |
| Battery body (Charging base) | 28.0 | -10 | 24 24 | - | 45 |
| Plastic enclosure inside (Charging base) | 28.9 | y -764 | 178th 1178 | . 12 E. U | Ref. |
| PCB near U1 (Earbuds) | 28.5 | 21/2 21 | " | T. | 105 |
| Battery body (Earbuds) | 29.1 | (d) | SER TIER | intife mi | 45 |
| Plastic enclosure inside near battery (Earbuds) | 28.2 | 711, 711, | - 10th | THE THE | Ref. |
| Plastic enclosure outside near battery (Charging base) | 26.7 | Vile Alvier | nur n | 711 | 77 |
| LCD panel (Charging base) | 30.1 | et - et | STEEL ST | Er Reter | 71 |



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| | | | | EN IEC 623 | 68-1 | | | | |
|---|--------------------|---------------------------|-------------------|-----------------------|--------------------|---|----------------------------------|----------------------|--|
| Clause | Requirement - | - Test | in an | ic. 741. | Result - | - Remark | at d | Verdict | |
| all in | 247 - 247 - 1 | 2,, | | e let | TEN LIFE | ال أثاثان | in we | an. | |
| Plastic end (Earbuds) | losure outside n | ear battery | where the | 27.5 | - 4 | | et Tet | 48 | |
| Ambient | | | - 24 | 25.0 | TEX MITTE | Will AUT. | an | 24 - 2 | |
| Supply volt | age (V) | | : | Condition 2 (4.2VDC): | - Liter | LIEK - NILTER | WALTER V | <u> </u> | |
| Ambient te | mperature durin | g test T _{amb} (| (°C): | See below | 20, 2, | 4 - A | \s | é – | |
| Maximum measured temperature <i>T</i> of part/at: | | | | T (°C) | | | | | |
| PCB near l | J1 (Earbuds) | | ب کی خ | 27.5 | The Marie | 200 - 200 | 2,1 | 105 | |
| Battery boo | dy (Earbuds) | The Mark | n. | 26.7 | * - 4 | 18t- 58 | | 60 | |
| Plastic end (Earbuds) | losure inside ne | ar battery | MITER | 26.1 | 11/2 | 10 - 70 - 70 - 70 - 70 - 70 - 70 - 70 - | 71) 214 | Ref. | |
| Plastic enc (Earbuds) | losure outside n | ear battery | , at | 25.6 | NINLIER WIN | Ter Wille | on _{ery} on | 48 | |
| Ambient | | | 10 | 25.0 | A- A | + -e+ | 18th 15 | | |
| Temperatu winding: | re T of | t ₁ (°C) | R ₁ (Ω |) t ₂ (°C) | R ₂ (Ω) | T (°C) | Allowed T _{max} (°C) | Insulatio n class | |
| 211, 21 | 2 19, 2 | | | , , , t | 16th 17EF | MITE WIT | 142 | 200, 2 | |
| Supplemen | ntary information: | | | , | | | | | |

^{*} Temperature limit for TS1 of accessible enclosure according to Table 38 to be measured at normal ambient temperature.

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's recommended ambient (Tma) of 25°C.

Note 2: The temperatures were measured under the worse case normal mode defined in clause B.2.1. Condition 1: Empty battery of earbuds together with empty battery of charging base were charged by USB type-C.

Condition 2: Normal operation, fully charged battery of earbuds operated under max. volume.

| B.2.5 | 2.5 TABLE: Input test | | | | | | 24 24 | P | | |
|-----------|-----------------------|------------|------------------------------------|--------|----------------|------------|---------------|--|----|--|
| U (V) | Hz | I (A) | I rated (A) | P (W) | P rated (W) | Fuse No | I fuse (A) | Condition/status | | |
| 5V | ALEK TEK | 0.15 | 11 ⁰⁰⁰ 11 ⁰¹ | 0.75 | TEK | ek | - July | Empty battery of earbuds together with empty battery of charging bas were charged by USB type-C. | | |
| AWELL ALL | | ing an | 34 7.E.A | الماري | X MITEN | MALTE | WALTE | Battery charging current charging base: 0.140A. | of | |
| NATER WAL | 211 | Liter Will | alvr | AN LEK | Tet | LIEX | NLIEK | Battery charging current earbuds: 0.020A. | of | |



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| | | | | | EN IEC | 62368- | 100 | | |
|---------------------------|--|------------|-----------|-------------|---------|---|-----------|---|----------------|
| Clause | Requ | iirement – | Test | il. all | Resul | t – Remark | Verdict | | |
| 4.2 | 100 to 10 | 0.04 | ilik niti | 0.16 | 41/25 | - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17 | 7,, | Empty battery of earb | uds were |
| (fully charged battery of | \$ - - | | - William | MALTEX | MALTER | WALTER | MALTE | charged by fully charged batte base. | ry of charging |
| charging | 21/2 | | TEX | LIEK | NLTEK W | LIFEK | ALTER. | Battery discharging cucharging base: 0.040/ | |
| base) | MULL. | | en en | - s U+ . | et et | EX IN | 1.E.J 11. | Battery charging curre earbuds: 0.010A. | ent of |
| 4.2 (fully | N.LIER | 0.006 | err - me | 0.025 | | - 3 | کی | Normal operation, full battery | y charged |
| charged battery of | 5 EX- 11 | | WALTER | White | AUT. | MUL | 271. | of earbuds operated uvolume. | ınder max. |
| earbuds) | 4 | | NITEH | MITEK | WALTER. | MITE | While | Battery discharging cuearbuds: 0.006A. | urrent of |

Supplementary information:

- 1) Supplied by DC source. ²⁾ Measured battery voltage and current for charging base and/or earbuds. The maximum measured current under rated voltage did not exceed 110% of the rated current.
- 2) For charging base: Max. charge current by manufacturer: 0.230A, Max. discharge current by manufacturer: 0.230A. For earbuds: Max. charge current by manufacturer: 0.030A, Max. discharge current by manufacturer: 0.015A.

| B.3, B.4 T. | ABLE: Abnorr | nal operatin | g and fau | It condit | on tests | MITE MALTE | one P one | |
|----------------------------------|--------------------------------------|-----------------------|--------------|----------------------------------|---------------------|--|-----------------|--|
| Ambient temp | erature T _{amb} (° | C) | (| | : See b | elow | _ | |
| Power source | for EUT: Man | ufacturer, mo | del/type, d | outputratii | ng: | WALL MALLE W | _ | |
| Component No. | Condition | Supply voltage (V) | Test time | Fuse no. | Fuse current (A) | Observatio | n | |
| Empty battery | of earbuds to | gether with er | npty batte | ry of cha | rging base w | ere charged by USB ty | pe-C. | |
| C20 (charging base) | Short circuit | 5VDC | 10mins | JEK JUNI K JEK | EK TEK O | Battery charging curre charging base: 0.00A Battery charging curre earbuds: 0.00A. | | |
| U7 pin 4-5 (charging base) | Short circuit | 5VDC | 10mins | MULLER A | MITES VINIT | Battery charging current of charging base: 0.14A. Battery charging current of earbuds: 0.02A. | | |
| Normal opera | tion, fully charg | ged battery of | earbuds | operated | under max. \ | volume. | -2/2 | |
| Speaker (Earbuds) | Short circuit | 4.2VDC | 10mins | EK WALT | y Tex | Speaker stop working damage, no hazard. Battery discharging coearbuds:0.015A. | | |
| Speaker | max. available output power | 4.2VDC | 10mins | MUTEK A | and antie ex tex | Normal operation, full battery of earbuds op under max. volume. temperature rise see 5.4.1.4, 9.3, B.1.5, B. | erated table | |



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| EN IEC 62368-1 | | | | | | |
|----------------|--------------------|-----------------|---------|--|--|--|
| Clause | Requirement – Test | Result – Remark | Verdict | | | |

| NITEK MIT | e antiek whi | IER WITE | JUNETE . | in a | 74 - C4 | Battery discharging current of earbuds:0.006A. |
|------------|---------------|----------|----------|-------------|--------------|--|
| C5 | Short circuit | 4.2VDC | 10mins | TEK MI L | WAL - TEK | Unit shut down immediately. No damage, no hazard. Recoverable. |
| | NITEK WALTER | | EK WALTE | Murr | | Battery discharging current of earbuds: 0.00A. |
| U1 pin 6-7 | Short circuit | 4.2VDC | 10mins | white. | uniti — un | Normal operation. No damage, no hazard. |
| | | | LIEK | NITEK W | | Battery discharging current of earbuds: 0.006A. |

Supplementary information:

Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

- 1) SC: Short-circuited; OL: Overloaded; BL=Blocked.
- 2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.
- 3) The test result showed no Class 1 or 2 energy source become Class 3 level during and after single fault condition.
- 4) For charging base: Max. charge current by manufacturer: 0.230A, Max. discharge current by manufacturer: 0.230A, For earbuds: Max. charge current by manufacturer: 0.030A, Max. discharge current by manufacturer: 0.015A.

| M.3 | TABLE: Pr | otection circu | its f | or batterie | es provid | ed v | vithin | the equ | ipment | IL BU |
|----------------|-----------------|-------------------------|-------|----------------------|---------------|--------------|--------------|----------------|-------------|-------------------------|
| Is it possible | to install the | battery in a re | vers | e polarity | position? | ,: | 20, | | | |
| | | | | | C | harg | ging | | | |
| Equipment S | pecification | | Vo | Itage (V) | | | | | Current (A) | |
| | | A 14 | | 5VDC | CLIER | 112 | Υ. | Maria M | Vr115 | 14. 14. |
| | | | | | Battery | / spe | ecifica | tion | | |
| | | Non-recharge | able | batteries | | | Red | hargeabl | e batteries | |
| | | Discharging | | ntentional | (| Char | ging | | Discharging | Reverse |
| Manufact | urer/type | current (A) | | harging rrent (A) | Voltage | (V) | Current (A) | | current (A) | charging current (A) |
| GX701230 | Mer | 21/2 - 2n | | <i>5</i> - 2 | 4.2 | Ļ. | 0.230 | | 0.230 | 1 Mar. 1 |
| 450909 | t Tet | JIER - JIER | w | ra- Mur | 4.2 | 10 | 0. | .030 | 0.015 | - 10 . |
| Note: The tes | sts of M.3.2 a | re applicable c | nly v | when abov | e appropr | iate | data i | s not ava | ilable. | |
| Specified bat | tery tempera | ature (°C) | | | | <i>⊘</i> , ∶ | 100 | 4 | 15 °C | |
| Component No. | Fault condition | Charge/ discharge mo | ode | Test time | Temp. (°C) | | rrent (A) | Voltage (V) | Obse | ervation |
| For charging | base (GX70 | 1230): | , | St. | et s | et- | J. C. C. | - CLIER | WITE W | L'IL WILL |
| B- to P- | sc + | Chargemod | le | 7hour | 29.1 | 0 | .14 | 4.20 | NL, NS, NE | E, NF |
| B- to P- | SC | Discharge mo | ode | 7hour | 27.3 | 0 | .04 | 4.20 | NL, NS, NE | E, NF |



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| EN IEC 62368-1 Clause Requirement – Test Result – Remark Verdic | | | | | | |
|--|--------------------|--------------|-----------------|------|---------|--|
| Clause | Requirement – Test | in and in an | Result – Remark | et s | Verdict | |

| For earbuds | (450909): | alifek miliek an | The My | 2/10 | n, | 100 | at at at |
|-------------|-----------|------------------|--------|------|-------|------|----------------|
| U1 (pin6-7) | SC | Charge mode | 7hour | 28.0 | 0.02 | 4.20 | NL, NS, NE, NF |
| U1 (pin6-7) | SC | Discharge mode | 7hour | 31.7 | 0.006 | 4.20 | NL, NS, NE, NF |

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit NL= no chemical leakage; NS= no spillage of liquid; NE= no explosion; NF= no emission of flame or expulsion of molten metal.

For charging base: Max. charge current by manufacturer: 0.230A, Max. discharge current by manufacturer: 0.230A, For earbuds: Max. charge current by manufacturer: 0.030A, Max. discharge current by manufacturer: 0.015A.

| M.4.2 | TABLE: battery | Charging sa | feguards for | equipment | containing a | secondary lithium | W P W |
|-------------|----------------|---------------------|----------------------|----------------------|--------------|---|-------|
| Maximum s | pecified o | charging voltag | ge (V) | | 4.2 | ITEK ALTEK IS | _ |
| Maximum s | pecified o | charging curre | nt (A) | | 0.230 | 24, 24, 24, | _ |
| Highest spe | cified cha | arging tempera | ature (°C) | | 45 | NIEL WILL MILL | |
| Lowest spe | cified cha | rging tempera | ture (°C) | | 0 4 | , <u>, , , , , , , , , , , , , , , , , , </u> | |
| Battery | | Operating | | Measureme | ent | Observation | on |
| manufacture | er/type | and fault condition | Charging voltage (V) | Charging current (A) | Temp. | | |

| Battery | Operating | | Measuremen | t | Observation |
|---------------------|------------------------|----------------------|----------------------|----------------|---|
| manufacturer/type | and fault condition | Charging voltage (V) | Charging current (A) | Temp. (°C) | |
| GX701230 | Normal condition | 4.2 | 0.00 | >45°C | Stop charging |
| 24, 24, | (B P- SC) | 4.2 | 0.00 | >45°C | Stop charging |
| MULTER WRITER W | Normal condition | 4.0 | 0.02 | et Opt | The charging voltage does not exceed 4.2V and the charging current does not exceed 0.230A |
| tifet whifet whifet | (B P- SC) | 4.0 | 0.02 | WILL O WILLIES | The charging voltage does not exceed 4.2V and the charging current does not exceed 0.230A |

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit; MSCV= maximum specified charging voltage; MSCC= maximum specified charging current; HSCT= highest specified charging temperature; LSCT= lowest specified charging temperature.

For charging base: Max. charge current by manufacturer: 0.230A, Max. discharge current by manufacturer: 0.230A. For earbuds: Max. charge current by manufacturer: 0.030A, Max. discharge current by manufacturer: 0.015A.

| Q.1 | TABLE: Circuits inte | nded for inte | rconnectio | n with build | ding wiring | (LPS) | N/A |
|---------|----------------------|--|------------|-----------------|-------------|--------|-------|
| Output | Condition | U _{oc} (V) | Time (s) | I _{sc} | (A) | S | (VA) |
| Circuit | Condition | O ₀₀ (V) | 111116 (5) | Meas. | Limit | Meas. | Limit |
| Let 1 | Normal | 17 11 | 10, 1 | | 8 | 18t 18 | 100 |
| Mr. Mr. | Single fault - SC/OC | A - JE+ | NI TELL IN | TER STATE | 8 | | 100 |



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| EN IEC 62368-1 Clause Requirement – Test Result – Remark Verdic | | | | | | |
|--|--------------------|--------------|-----------------|------|---------|--|
| Clause | Requirement – Test | in and in an | Result – Remark | et s | Verdict | |

Supplementary Information:

SC = short circuit, OC = open circuit

| T.2, T.3, T.4, T.5 | TABLE: S | teady force te | est | | | | | | N/A | in, |
|-----------------------|---------------|-------------------|-------|--------------|-------------------------|---------|-------|--------|-----|------|
| Location / Part | Material | Thickness (mm) | Probe | Force (N) | Test Duration (s) | | Obser | vation | | |
| Mur. Mu | 77/1 | 4, - 4, | L - + | -,4 | · State | SEE MIT | MALIE | Mill | Mer | |
| Supplementa | ary informati | on: | | | | | | | | |
| ine in | 1,1, | th | | EL | SEX S | E. CLIE | anin. | Mr. | an. | 1/11 |

| T.6, T.9 | TABLE: Impa | ct test | A | CENT OF | at a | TEK I | LIFE | Villa 2 | N/A |
|--------------|-----------------|----------------|--|---------|-------|-------|----------|---------|------|
| Location/Par | t Material | Thickness (mm) | Height (mm) | | | Obs | servatio | n | |
| Ţ | # 7th | TEN TEN | LIER TOLIN | -arr | 2 Nur | In. | 2, | , , | L .+ |
| Supplement | ary information | | | | | | | | |
| A 8 | 5 Ab . | ALL THE ST | The Contract of the Contract o | 112 | 16. | 2/1 | 2, | | 24 |

| T.7 T. | ABLE: Drop | test | MLITER | itt 1 Mg. m. 10 | Р |
|---------------|----------------|-----------------|----------------|---|----|
| Location/Part | Material | Thickness (mm) | Height (mm) | Observation | |
| Enclosure | Plastics | See table 4.1.2 | 1000 | Enclosure remained intact, no crack/ opening developed. No hazards. | ng |
| Supplementary | / information: | | | | |
| Wr. Mr. | 24. 24. | | t let | TER LITER NET MET WALL WALL | |

| T.8 | TABLE: Stres | s relief test | at a | Et JE | - CLIEB | Life White | N/A | 100 |
|------------------------------|-----------------|----------------|------------------------------|-----------------|---------------|------------|----------|-----|
| Location/Part | Material | Thickness (mm) | Oven Temperatur e (°C) | Duration (h) | ()nservation | | n | |
| الم. الم ^{الك} الما | و ماندان | Vr. Arr. A | 3 | | -t 2t | - SEP S | JEH (178 | · . |
| Supplementar | ry information: | | | | | | | |
| JEN JE | 112 M | 1 W. M. | 7 | 4 | 4 14 | 18 18 | the Tier | |

| Х Т | TABLE: Alternative method for determining minimum clearances distances | | | | | | |
|------------------------------|--|-----------------------------|----------------------|---------------------|-------|--|--|
| Clearance distanced between: | | Peak of working voltage (V) | Required cl (mm) | Measured cl (mm) | | | |
| - m m | 24, 24, | 1 1 - At 5 | EX NITER TO THE MALT | MULL MAL | Mr. | | |
| Supplementary information: | | | | | | | |
| Mr. Mr. | 20, 20, | THE STATE STATES | OLITER WILLER WALTER | MULL MULL | in in | | |



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| Jan Maria | All All All All All | EN IEC 62368-1 | TEX WITE WALLEN | Tip Muril Mur |
|-----------|---------------------|----------------|-----------------|---------------|
| Clause | Requirement – Test | Mur. An. A. | Result – Remark | Verdict |

| 4.1.2 | TABLE: Critical comp | At P | | | | |
|---|---|-----------------------------|---------------------------------------|--|---|--|
| Object / part No. | Manufacturer/ trademark | Type / model Technical data | | Standard ² | Mark(s) of conformity ¹ | |
| Plastic enclosure | CHI MEI CORPORATION | PA-765A | V-1, 80°C, min. thickness 1.5mm | UL 94 | UL E56070 | |
| TFT LCD Display Panel | JINGXINGHUO TECHNOLOGY CO.LTD | HXW661079 | 1.45 inch | EN IEC 62368-1 | Test with appliance | |
| Speaker for headset | Interchangeable | Interchangeabl e | Max. 10mW, 32Ω±15%, 2PCS | EN IEC 62368-1 | Test with appliance | |
| All PCB | Interchangeable | Interchangeabl e | Min. V-1, Min. 105°C | UL 796 | UL W | |
| Internal wire | Interchangeable | Interchangeabl e | Min. 30AWG, min. 80°C, min. 30V | UL 758 | UL STEEL | |
| Internal Li- ion battery (for charging base) | Dongguan Gexin Electronic Technology Co.Ltd | GX701230 | 3.7V, 230mAh | IEC 62133-2: 2017 | 17 Test Report No.: TSZ24100189 -P03-R01 | |
| Internal Ithium ion battery (for earbuds) Zaoyang Gexin Electronic Technology Co., Ltd | | 450909 | 3.7V, 30mAh | IEC 62133-2:2017 IEC 62133- 2:2017/AMD1:2021 EN 62133-2:2017 EN 62133- 2:2017/A1:2021 | Test Report No.: TCT250224B0 38 | |

Supplementary information:¹⁾ License available upon request. Provided evidence ensures the agreed level of compliance. See OD-CB2039.

²⁾License available upon request.



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Photo Documentation

Reference No.: WTF25D06145151Y

Model: MO2737



Figure 1: External view



Figure 2: External view



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Photo Documentation



Figure 3: External view



Figure 4: Overall view



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Photo Documentation



Figure 5: External view



Figure 6: External view



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Photo Documentation



Figure 7: External view



Figure 8: External view



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Photo Documentation



Figure 9: External view



Figure 10: Overall view



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Photo Documentation



Figure 11: External view



Figure 12: External view



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Photo Documentation



Figure 13: Internal view



Figure 14: Internal view



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Photo Documentation

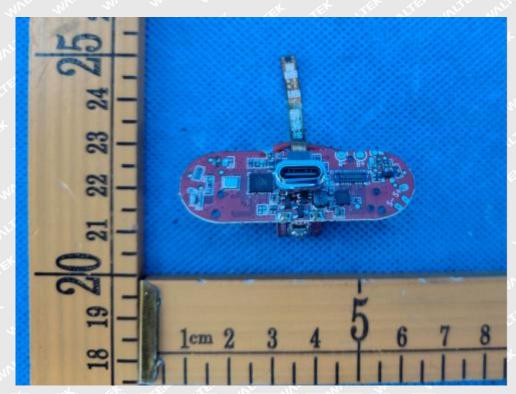


Figure 15: PCB view for charging base

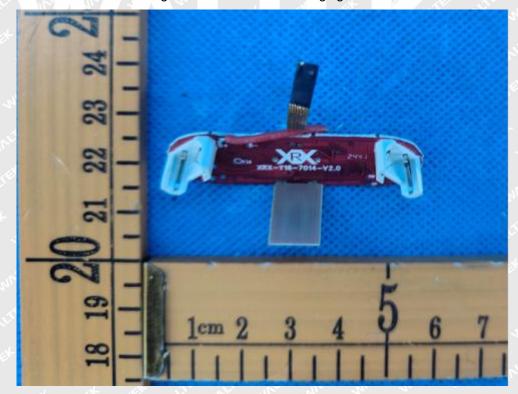


Figure 16: PCB view for charging base



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Photo Documentation

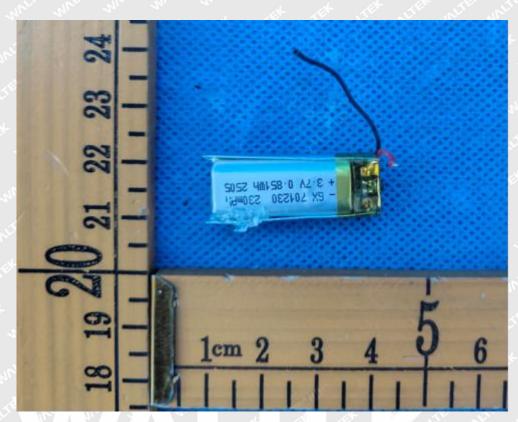


Figure 17: Battery for charging base

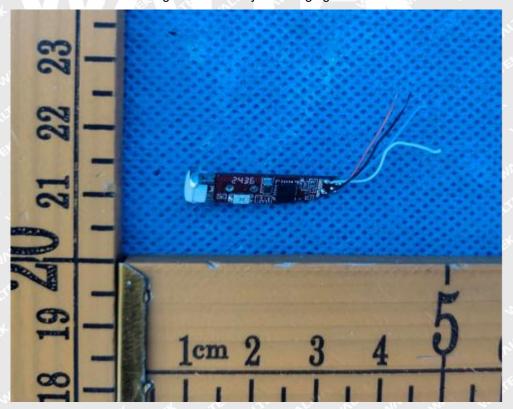


Figure 18: PCB view for earbuds



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Photo Documentation

Reference No.: WTF25D06145151Y

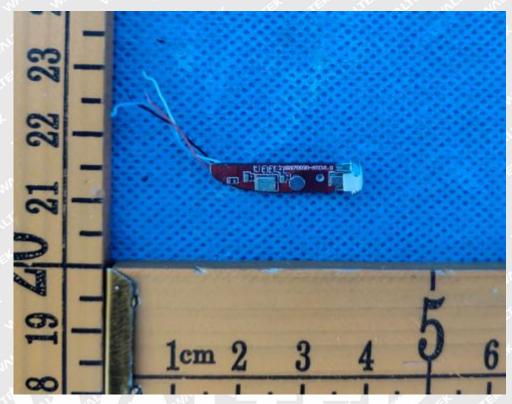


Figure 19: PCB view for earbuds

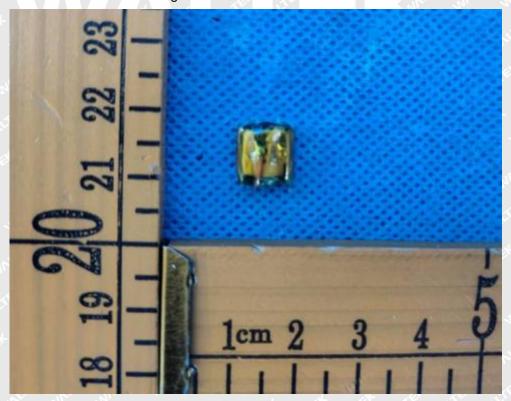


Figure 20: Battery for earbuds

===== End of Report =====